

101st
Annual Report
(2023-2024)

PART-I



University of Delhi

101st
ANNUAL REPORT
2023-2024

PART-I



University of Delhi

Preface

The University of Delhi has traversed 100 years of glorious journey, covering both pre- and post-independence era, leaving many milestones on the way. To commemorate this achievement, the University had a year-long Centenary Celebrations, which was inaugurated by the Shri Jagdeep Dhankar, Hon'ble Vice President of India and the closing ceremony was graced by the Hon'ble Prime Minister, Shri Narendra Modi.

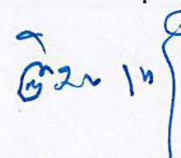
Several new initiatives were taken up during the Centennial year, some of which are elaborated in this Annual Report. The University also started few flagship programmes, such as B.Tech. in Computer Science Engineering, Electrical Engineering and Electronics & Communications Engineering; Five-year Integrated B.A. LL.B and B.B.A. LL.B programmes; M.A Hindu Studies, M.A. Korean, and M.A. Chinese among others.

Providing accessible and inclusive education is one of the thrust areas of the University. In furtherance of access to education, the University also commenced in Open Distance Learning mode six programmes, viz. MBA, Bachelor of Business Management (Financial investment analysis), Bachelor of Management Studies, Bachelor of Arts in Economics, Bachelor of Library and Information Sciences and Master of Library and Information sciences, in the School of Open Learning. Over and above the minimal fee charged from the students, the University has provided financial assistance to the students coming from economically weak families, instituted quota for single girl child as well as orphans.

Two section-8 companies, namely Udhmodya Foundation and University of Delhi Foundation, have been registered in order to promote innovation and resource generation respectively. It is expected to further build the research ecosystem along with the augmentation of the Patent Cell and the commencement of short term Certificate course on 'Patents'.

Significant initiatives have also been taken to promote research. The University, through the Institution of Eminence has disbursed crores of rupees to the faculty members for Faculty Research Projects (FRP). It has also established the system of awarding cash rewards to those who are able to publish research articles in Q1 and Q2 journals as per Scopus. As on date 36 faculty members have been disbursed 36 lakhs under FRP. Further, the University has taken steps to recognize and consider only publications in the Scopus indexed/ UGC Care Listed journals for the purpose of recruitment/ promotion/ faculty awards, with effect from 1st July 2024. Even for publication in this Annual Report, only publications in Scopus indexed/ UGC Care Listed journals/ Web of Science/ Pubmed (especially for the Faculty of Medical Sciences) have been included.

All these initiatives along with recruitment and promotions in mission mode, has taken the University to new heights which is evident from the fact that the University has been able to make a record jump of more than 100 positions in QS World Rankings in 2024. Similarly, the NIRF rank of the University has also improved from 13th to 11th in 2023. The full range of impact of these initiatives may take some time to be visible, but definitely the University is on the right track of its development. The Institutional Development Plan and Strategic Plan shall further ensure that it continues to do so.



Prof. Yogesh Singh
Vice-Chancellor

Editorial Board

The 101st Annual Report of the University of Delhi for the period from 01.04.2023 to 31.03.2024 highlighting the activities and achievements of the University of Delhi during the year 2023-2024 is presented herewith.

The Report consists of two parts:

- Part I comprises of achievements and highlights of activities of the relevant period, information about University of Delhi's academic progress including Faculties, Departments, Centres, Colleges and Finance.
- Part-II provides Information and Data.

The Editorial Board comprised of the following members:

- | | | | |
|-----|---|---|-------------------------|
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| 2. | Prof. Sudha Vasan, Department of Sociology | | |
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| 14. | Dr. Shikha Sachdeva, Faculty of Management Studies | | |
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| 16. | Dr. Ankit Rajpal, Department of Computer Science | | |
| 17. | Dr. Vaibhav Puri, Sri Guru Gobind Singh College of Commerce | | |
| 18. | Joint Registrar (Council) | | |
| 19. | Assistant Registrar (Council) | – | Member Secretary |

The Editorial Board acknowledges the contribution of Dr. Om Prakash, Department of Hindi and ten interns who worked under him, Dr. B. Debkumari, Consultant (Academic & Research), Smt. Seema Sirpal, Senior Technical Officer, DUCC and five VC Interns attached to the office of Dean, Academic Affairs.

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Officers of the University

(April 2023 to March 2024)

Chancellor

Hon'ble Jagdeep Dhankhar

Pro-Chancellor

Justice Dhananjaya Y. Chandrachud

Vice Chancellor

Prof. Yogesh Singh

Dean of Colleges

Prof. Balaram Pani

Director, South Campus

Prof. Shri Prakash Singh

Director Campus of Open Learning

Prof. Payal Mago

Treasurer

Sh. Nawal Kishore

Registrar

Dr. Vikas Gupta

Proctor

Prof. Rajni Abbi

Librarian

Dr. Rajesh Singh

Dean of Faculties

Faculty of Arts

Prof. Amitava Chakraborty

Faculty of Applied Social Sciences & Humanities

Prof. Ananya Ghosh Dastidar

Faculty of Ayurvedic & Unani Medicine

Prof. Tanuja Manoj Nesari

Prof. Manjusha Rajgopala

upto 13.03.2024

w.e.f. 14.03.2024

Faculty of Commerce & Business

Prof. Ajay Kumar Singh

Faculty of Education

Prof. Pankaj Arora

Faculty of Inter-Disciplinary & Applied Sciences

Prof. Rajeev Kaul

Faculty of Law

Prof. Usha Tandon

Prof. Anju Vali Tikoo

upto 25.09.2023

w.e.f. 26.09.2023

Faculty of Management Studies

Prof. Vivek Suneja

Faculty of Mathematical Sciences

Prof. Naveen Kumar

Faculty of Medical Sciences

Prof. Aditya Nath Aggarwal

Prof. Sunita Kalra

upto 25.11.2023

w.e.f. 26.11.2023

Faculty of Music & Fine Arts

Prof. (Mrs.) Alka Nagpal

Faculty of Open Learning

Prof. Payal Mago

Faculty of Science

Prof. Satish Kumar Awasthi

Prof. Debajyoti Choudhury

upto 23.08.2023

w.e.f. 24.08.2023

Faculty of Social Sciences

Prof. Seema Bawa

Prof. Prabhu Prasad Mohapatra

upto 03.10.2023

w.e.f. 04.10.2023

Faculty of Technology

Prof. K.S. Rao

Prof. Sanjeev Singh

upto 02.07.2023

w.e.f. 03.07.2023

University at Glance

No. of Faculties:	16
No. of Departments:	86
No. of Colleges:	91
No. of Centres:	21

NAAC Grade: A+
NIRF Rank: 11
QS World Rank: 407

No. of Programmes: ~500
Total number of students: ~7 lakhs
Undergraduates: 218803
Male: 97513
Female: 121290
Postgraduates: 34964
Male: 18096
Female: 16868
No. of students in Non-Collegiate
Women's Education Board: 35375
No. of Students in School of Open
Learning: 379659

h-index of the University: 280
No. of PhD. Awarded: 660
Total grants: 778.39 Crores
Total Expenditure: 955.13 Crores
Total Area: 415.96 Acres
Total built-up area: 105.58 Acres

ACHIEVEMENTS AND ACTIVITIES OF THE YEAR 2023-24

Notable Highlights of the Year 2023-24

The year 2023-24 has been eventful for the University of Delhi. It witnessed a splendid celebration of the Centennial year, which was studded with several memorable historic moments alongwith the launch of several flagship programmes and initiatives, which will have far reaching impact in the overall growth and development of the University. The strategic steps taken to improve quality of teaching-learning, encourage research publications in high impact journals, increase accessibility to education and recruitment of permanent faculty members in the mission mode has resulted in rise of the University's QS World Ranking by more than hundred positions.

Ranking

International Ranking

The University of Delhi ranked 407th in the QS World Universities Rankings 2024, improving tremendously compared to last year's ranking, which is ranked 521-530. It has been ranked 1st in India (out of 56 Institutions, including IITs) and 220th globally (out of 1,403 Institutions) in the Quacquarelli Symonds (QS) World University Rankings: Sustainability 2024, with an overall score of 73.4 out of 100. The University's QS World Sustainability ranking moved significantly from 381-400 rank last year to 220th rank globally this year. It is the only Indian Institution in the top 250 globally.

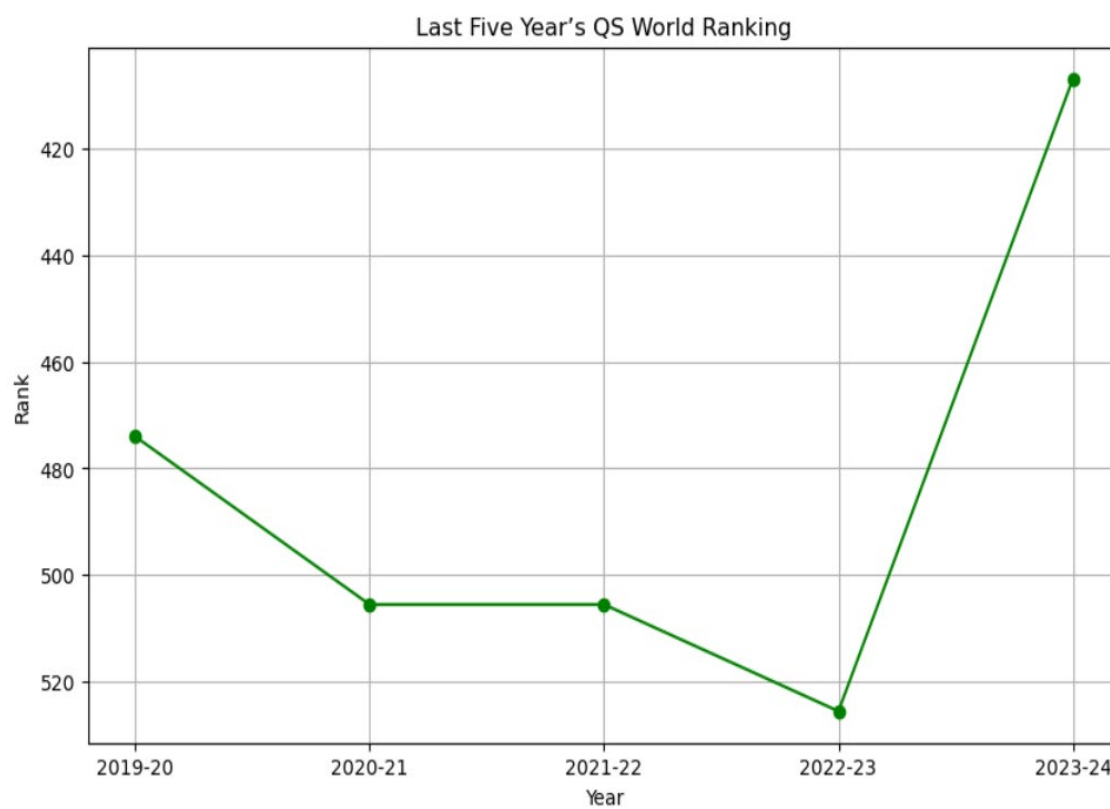
In the QS Asia University Rankings 2024, the University is ranked 94th. The University is ranked among the Top 11% in QS Asia University Rankings 2024. Of the nine indicators, the University has been ranked among 100 institutions globally in three indicators: 16th in Environmental Education, 66th in Environmental Sustainability, and 93rd in Knowledge Exchange. It has also performed significantly well in the Governance indicator, ranking 167th. The University has ranked 801-1000 in the Times Higher Education: World Universities Rankings 2024, improving tremendously compared to last year's ranking, which is ranked 1001-1200.

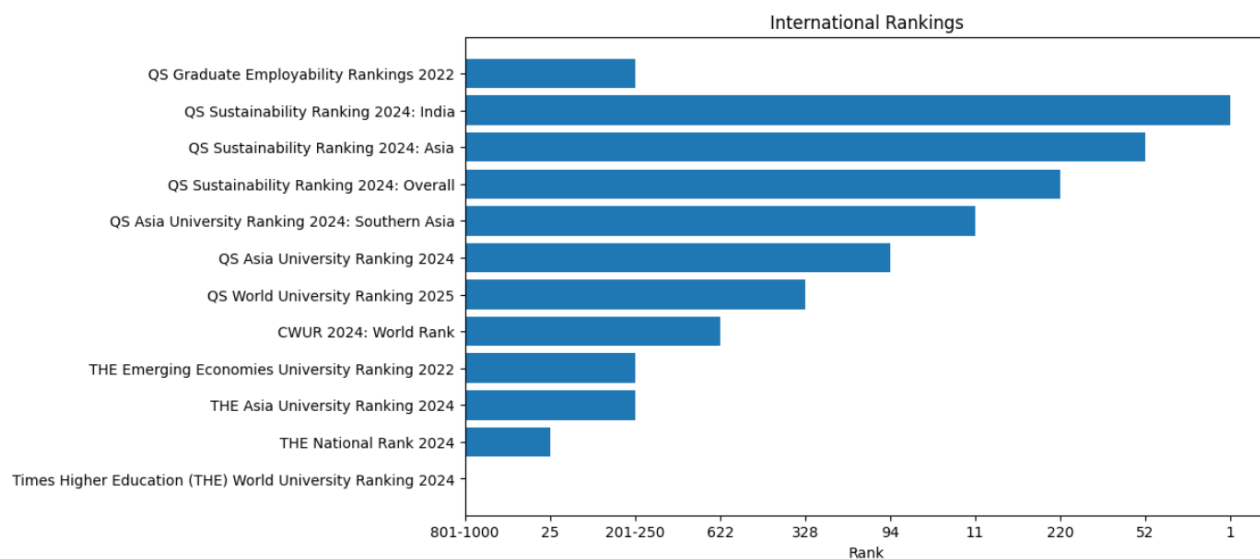
International Rank of the University for the year 2024 published in year 2023

Ranking Name	Rank
Times Higher Education (THE) World University Ranking 2024	801-1000
THE National Rank 2024	25
THE Asia University Ranking 2024	201-250
CWUR 2024: World Rank	622
QS World University Ranking 2024	407
QS Asia University Ranking 2024	94
QS Asia University Ranking 2024: Southern Asia	11
QS Sustainability Ranking 2024: Overall	220
QS Sustainability Ranking 2024: Asia	30
QS Sustainability Ranking 2024: India	1

QS World University Rankings by Subject for the year 2024	
Development Studies	43
Anthropology	51-100
Sociology	101-150
Modern Languages	101-150
English Language & Literature	101-150
Economics and Econometrics	151-200
Philosophy	151-200
Geography	151-200
History	151-200
Politics & International Studies	151-200
Business & Management Studies	201-250
Law	201-250
Statistics & Operational Research	201-250

Last Five Year's QS World Ranking





National Ranking

The University of Delhi has improved its ranking in both the Universities Category and the Overall category in the NIRF Rankings 2023. In the Universities category, it has jumped from 13th position (score 58.66) to 11th position (score 61.45), and in the Overall category, from 23rd position (score 57.63) to 22nd position (score 60.24). The University has improved its performance in almost all the parameters, including teaching learning and resources (increase in score by 1.068), research and professional practice (increase in score by 0.447), graduation outcome (increase in score by 1.196), and outreach and inclusivity (increase in score by 0.51).

National Institutional Ranking Framework (NIRF) – India Rankings for Universities

Year	Rank
2019-20	13
2020-21	11
2021-22	12
2022-23	12
2023-24	11

Admission

The University achieved several milestones through its admission policies in the Academic Session 2023-24. In its efforts of “National Reach”, the Admission Branch was successful in registering candidates from across the country, showcasing the University’s widespread appeal to the diversity of the country. The achievements of the Admission Branch are provided as under:

- A PG Merit Portal was launched and used for admitted candidates to Four Postgraduate Programs through the marks obtained in Undergraduate Level:
 - i. M.A. Hindu Studies
 - ii. M.A. Chinese
 - iii. M.A. Korean
 - iv. PG Diploma in Cyber Security and Law
- A platform for admitting students to the three newly started B.Tech. Programs was administrated. Through this platform students were admitted through the Ranks obtained through JEE.
 - i. B.Tech. Computer Science Engineering
 - ii. B.Tech. Electronics and Communication Engineering
 - iii. B.Tech. Electrical Engineering
- Two Five-year Integrated Programs in Faculty of Law were also started this year, and the students were admitted through the merit scores obtained through CLAT
 - i. B.A. LL.B.
 - ii. B.B.A. LL.B.
- Two Four-year Integrated Programs in Education have also been started this year in two Colleges (Mata Sundri College and Shyama Prasad Mukherji College. A separate dedicated platform was made to admit students in BA B.Ed. (Secondary) and BA B.Ed. (Middle)

Admission data

Undergraduate Admissions 2023-24

Total Registrations: 246685

Total Admissions: 69622

Post Graduate Admissions 2023-24

Total Registrations: 56325

Total Admissions (including NCWEB): 11174

PG – Merit Based admissions 2023-24:

Admissions to the following programs were made based on Merit scores of Undergraduate levels:

M.A Hindu Studies: 72

M.A. Chinese: 03 have been admitted
M.A. Korean: 15 students have been admitted
PG Diploma in Cyber Security and Law: 32

Admissions to B.Tech Programs 2023-24:

Admission to the following programs was made based on scores obtained in JEE (Mains) Paper I:

Total Registrations: 12075

Admissions:

B.Tech Computer Science Engineering: 146

B.Tech Electronics and Communication Engineering: 162

B.Tech Electrical Engineering: 48

Admissions to five-year B.A. LL.B and B.B.A LL.B. 2023-24

Total Registrations: 1923

Admissions:

B.A. LL.B.: 62

B.B.A. LL.B.: 56

Admissions to four-year Integrated Teacher Education program (ITEP)

Total Registrations: 346

Total admissions: 137

Admissions to PhD:

Total registrations in Phase I and Phase II: 19899.

Total Admissions in Phase I and Phase II: 1655

Phase III for Departments in Faculty of Sciences has been started on 26.03.2024

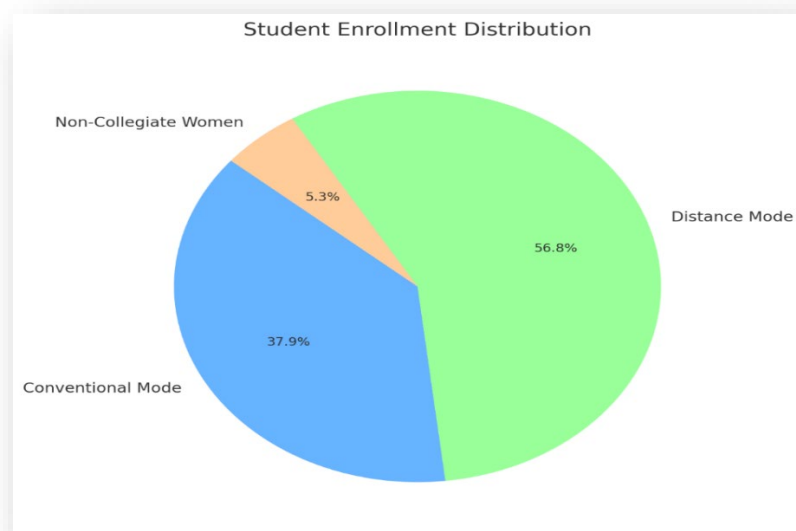
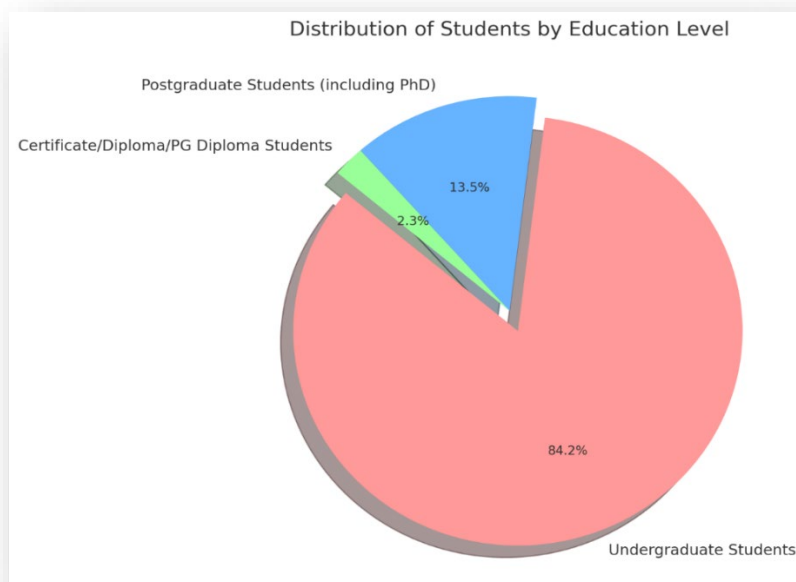
Total Orphan Students Admitted:

B.Tech. Programme	=	03
PG at Departments	=	17
UG at Colleges	=	78
TOTAL	=	<u>98</u>

A total of 1721 Foreign students have been enrolled in the University from as many as 86 countries.

Student Enrollment

As per 2023-24 data, post admission process, the University has **213642** undergraduate and **34229** Postgraduate students, including PhD students and **5896** in certificate/Diploma/PG Diploma on rolls. The total number of students enrolled in conventional mode is **253767**. Additionally, as many as **379659** Students are enrolled in the open distance mode, and **35375** non-collegiate women students also form part of this mammoth University. The total number of students enrolled across conventional and open distance modes was **668801** during 2023-24.



Diversity of Students

The University of Delhi receives applications from all over India for admission to the programmes offered by the University. It may be noted that in terms of students' diversity at the national level, more than half of the students come from States other than NCT of Delhi. The University also promotes foreign students to enroll in various programmes offered by it by providing 10% of the total seats per programme for foreign students. Through such a provision, students from different foreign countries get admitted to the University and its Colleges and pursue their higher studies. A visual representation of the enrolled foreign students and their respective country is provided below:



Examination Details

The 100th Annual Convocation of the University of Delhi was organized on 24th February 2024 at the Multipurpose Hall of DU Sports Complex. The Hon'ble Vice-President of India, Sh. Jagdeep Dhankhar was the Chief Guest at the function, while the University's Vice Chancellor, Prof. Yogesh Singh, presided over the function.

The Details of Medals/Awards/Degrees/D.M. etc. awarded in the Convocation are as under:

Course	No. of Students
Ph.D. Degree	660
DM. M.Ch. Degree	48
Bachelor (Regular and SOL) Degree	149612
Master (Regular and SOL) Degree	10992
M.Phil. Degree	438
LL.B. Degree	2547
M.B.B.S.	650
MD/MS	779
Five-year Integrated Course in Journalism	37
Gold Medal & Prize for Annual Convocation-2024	193

Noteworthy initiatives

The University has been making pioneering initiatives, from time to time, to provide quality and accessible education to learners belonging to different strata of society. Some of these initiatives which have been taken in the centennial year are briefly stated below.

Creation of New Programs, Centres, Departments

New academic programmes introduced in the Academic Session 2023-24:

1. Ph.D. in Fine Arts under the Faculty of Music & Fine Arts.
2. Five Year Integrated Law Programmes by the Faculty of Law
 - B.A. LL.B (Hons.)
 - BBA LL.B (Hons.)
3. Three B.Tech. Programmes by Faculty of Technology
 - B.Tech. Computer Science & Engineering
 - B.Tech. Electronics & Communications Engineering
 - B.Tech. Electrical Engineering
4. MA (Hindu Studies) by the Centre for Hindu Studies
5. Integrated Teacher Education Programme (ITEP) Shyama Prasad Mukherjee College and Mata Sundri College for Women. It will be implemented by the Faculty of Education and Jesus & Mary College.
6. MA Chinese by the Department of East Asian Studies
7. MA Korean by the Department of East Asian Studies

8. MBA (Business Analytics) by the Faculty of Commerce
9. Starting of BA (Hons.) Russian to be implemented from Academic Session 2024-25
10. Introduction of M. Tech. Computer Science program with an intake of 30 seats in the Department of Computer Science subject to approval from the All India Council for Technical Education (AICTE).
11. Admissions to Bachelor of Fine Arts in College of Art through CUET; CSAS in Academic Session 2023-24.
12. Admissions to Master of Fine Arts in College of Art through CUET (PG); CSAS (PG) in Academic Session 2024-25.

New Medical Courses

1. Master of Public Health (MPH) Course at National Institute of Health and Family Welfare (NIHFW), Baba Gangnath Marg, Munirka, New Delhi-110067 with intake of 20 seats per year from the Academic Session 2023 onwards.
2. Starting of DM (Pulmonary Medicine) Course with an intake of 2 (two) seats per year at Maulana Azad Medical College from the academic session 2024-25 onward subject to the approval by the Ministry of Health and Family Welfare, Govt. of India/ national Medical Commission.
3. Starting of M.Sc. Psychiatric (Mental Health) Nursing Course in Institute of Human Behaviour & Allied Sciences (IHBAS) with an intake of 20 seats from the Academic Year 2023-24.
4. Starting of DM in Geriatric Mental Health Course with an intake of two (02) seats per year in the Department of Psychiatry at Institute of Human Behaviour & Allied Sciences (IHBAS) from the Academic Session 2023-24 onwards subject to the approval by the Ministry of Health and Family Welfare, Govt. of India/ National Medical Commission.
5. Introduction of Course Curriculum of DM (Geriatric Mental Health) Course.

Establishment of Three New Centres

- 1 Centre for Hindu Studies – Ordinance XX (AA)
- 2 Centre for Tribal Studies – Ordinance XX (Z)
- 3 Centre for Independence and Partition Studies – Ordinance XX (Y)

Financial Support Scheme 2023-24

Taking forward the need for affirmative actions as mandated in the Constitution of India and to extend the benefits of equity, access, and quality in education, both in letter and spirit, to the financially weak students, the University had initiated a Financial Support Scheme (FSS) in 2022. This scheme is reflected through a fee waiver for economically weak students in the spirit of the Government's motto, "Sabka Sath, Sabka Vikas".

In Its first implementation year (2022-23), 1009 students were given financial support amounting to Rs. 1,00,61,057.00 under this scheme.

In the academic session 2023-24, a total of 2044 students enrolled in Departments/ Centres/ Institutes applied for financial support under this scheme. After the scrutiny of the Application forms, recommendations were made based on the criteria listed below:

SL. No	Family Income (in Rs.) Per Annum	Fee Waiver (percentage)	Remarks
Category 1	Less than or equal to Rs. 4,00,000.00	100%	Actual fee or up to a maximum of Rs. 10,000.00
Category 2	Between Rs. 4,00,000.00 and Rs. 8,00,000.00	50%	Actual fee or up to a maximum of Rs. 8,000.00

A total of 1669 students were awarded financial support; out of which 530 are female students and the rest 1139 were male students. The details of the grant disbursed under this scheme are given below:

Gender-wise quantum of support	Count of Students	Total Grant
Female students	530	3945454
Those received 50% support	120	701022
Those who received 100% support	410	3244432
Male students	1139	8096184
Those received 50% support	218	1050429
Those who received 100% support	921	7045755
Grand Total	1669	12041638

Creation of quota for orphan students

The University has taken a noble step to admit two children (one male and one female) to each programme of study, both at the undergraduate and postgraduate level, who have been rendered orphans. These two seats are supernumerary.

The expenditure incurred for admission and continuance of study of such students, including hostel expenditures in the University or its Colleges, shall be met from the University Welfare Fund or Colleges Students' Welfare Fund, as the case may be. A total of 101 orphan students were admitted under this category in the academic session 2023-24.

Competence Enhancement Scheme

The University launched a new scheme called the Competence Enhancement Scheme (CES) in its centennial year to make higher education more accessible, as envisaged under the National Education Policy 2020.

The Scheme provides opportunities to people from all walks of life to enhance their knowledge/competence by registering for any one or two courses offered in a semester in the University's Colleges and Departments. Such students shall get the flavour of studying in the University along with the regular students of such course(s) without having to enroll for a Programme of study. The number of seats per course prescribed is a maximum of 10% of the class size of such course and these seats are treated as supernumerary seats.

Admission under CES 2023-24 has been conducted for two semesters; July to December 2023 and January to April 2024.

Samarth: e-Gov

The Samarth E-Gov Suite, developed by the University of Delhi, is a purpose-built platform for Universities and HEIs to deploy a digital framework of good governance.

Samarth offers more than 40 automation modules for managing a variety of workflows across 5 critical functional domains of university operations and administration.

Overall Samarth Highlights:

- 2500+ Total HEIs on Samarth (across 32 States/UTs and 412 Districts/Cities)
- 26.8 lakhs Applications for Admissions Processed so far
- 15.2 lakhs Applications in CUET 2023 processed on Samarth
- 1.06 Crore Student Records
- 64.9 Thousand Employee Records
- 1.63 Lakh Salary Statements Processed
- 66 thousand Files Logged and Tracked
- 1.20 Lakh Leave Applications processed.
- 11 Lakh Recruitment Applications processed
- 5 Lakh Digital Degree Awarded to Students
- 202.716 TB Monthly storage
- 61.928 TB / Month network traffic

Roadmap:

1. Extend implementation of Samarth to include 10,000 HEIs under NMEICT Phase – 3
2. Integration of interfaces of other projects of Ministry
3. Localization of software in major Indian languages
4. International outreach – G20, Africa-India

VC Internship Scheme (VCIS)

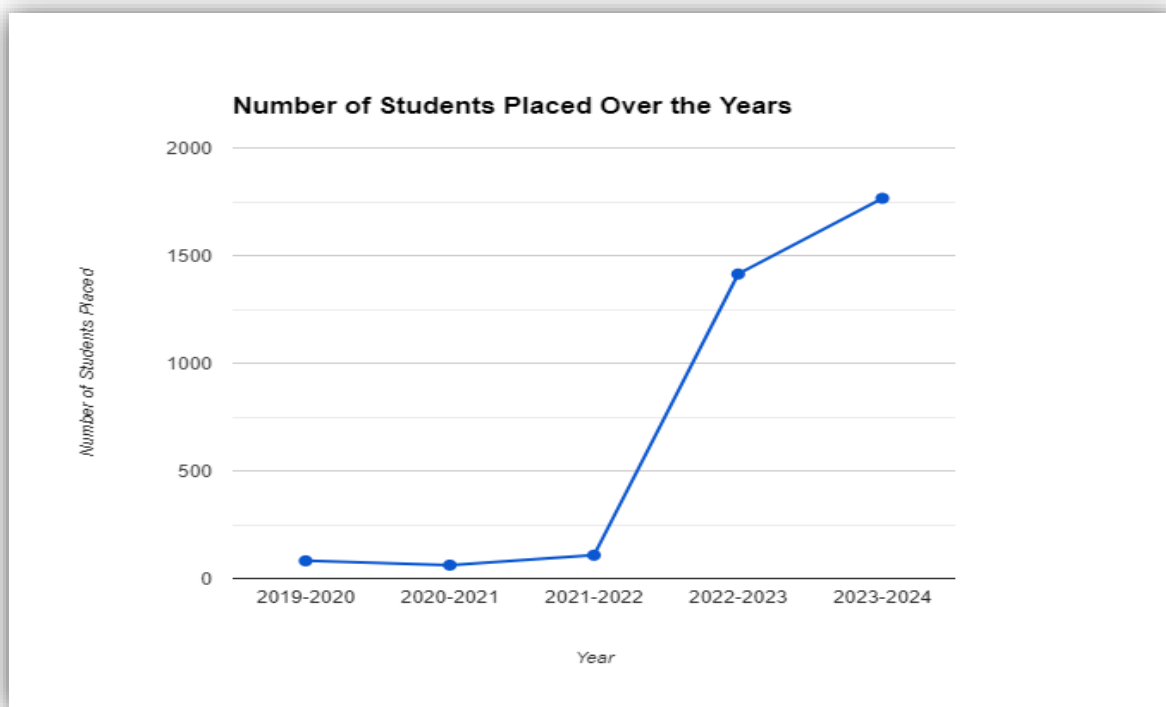
The 'Vice Chancellor Internship Scheme'(VCIS) aims to provide internship opportunities to its students in the University which will help them to understand the working of different sectors of the University system, in particular, and official functioning in government set-ups, in general. The Scheme also tries to advance the concept of 'Earn while you Learn'. The VC Interns who have undergone this internship, got the opportunity to contribute to the University and develop better understanding of the policies and, thus, acted as ambassadors of the University.

Gender-wise total number of students enrolled in VCIS are as follows: -

VCIS	Number of Students
(i) Vice Chancellor Internship Scheme - Part-time- 2023	Females– 87 & Males – 53
(ii) Vice Chancellor Summer Internship 2024	Females – 77 & Males – 58

Placements

The office of Dean Students Welfare facilitated in reaching out to the recruiters/ organisations for providing placement / internships. In the year 2023-24, a total of 15373 students applied for the same and 1766 of them got selected. A graphical representation of number of students placed through the office of Dean Students Welfare is provided below (this excludes departmental level placements)



Data of selected/ shortlisted candidates during the Placement/ Job Mela -2023-24					
S. No	Name of Company	Number of Shortlisted Candidates	Date of Placement	Number of Selected/ Shortlisted candidates	Total
1	Alles Health	20	October 26, 2023		
	Bajaj Allianz	173			
	Axis Classes Pvt. Ltd. (AXIS IIT/NEET)	251		Applied (PG- 305 & UG - 790) = 1095	
	Ajex & Turner Wire Technologies Pvt. Ltd.	10		Selected (PG- 127 & UG -508) = 635	635
	Swastik Classes (IIT JEE & Foundation)	181			
		635			
2	Sonalika	4	01.2.2024		
	My Analytics School	43			
	Expert's Global	2			
	Jitin Chawla's Centre of Career Development	10			
	Indian Masterminds	12			
	Clockwork Media	2			
	MM Nissim	6		Applied (PG- 430 & UG - 860)= 1290	
	Marriott International	48		Selected (PG- 88 & UG - 348) = 436	436
	Paisabazaar	56			
	ABP Networks	10			
	HDB Financial Services	243			
		436			
2	Planetspark	164			
	Netrika Consulting India Pvt. Ltd.	4			
	Backbenchers	21			
	Daakroom	6			
	Experts' Careers	2			
	Mitr	129	Job Mela	Applied (PG- 4350 & UG - 8250) = 12600	

	Stubborn Factory LIMITED	3	April, 23-24, 2024	Selected (PG- 135 & UG -540) = 675	
	TCS	162			675
	Infiheal Health Tech Pvt Ltd.	2			
	Infojini Consulting Pvt Ltd.	8			
	Paisabazaar	77			
	Next IAS	1			
	Swiss AllesHealth Pvt. Ltd.	1			
	EduDag	17			
	HDB	78			
		675			
3	Innodata		June 11,2024	Applied (PG- 65 & UG - 326) = 391	
		20		Selected (PG-11 & UG -9) = 20	20
				Total Selected	1766
				Total Participated - 15376	

Internationalization initiatives

The International Relations Office alongwith the office of Foreign Students Registry has been putting efforts towards attracting foreign students to the University, collaborating with Foreign Universities through signing of Memorandum of Understandings with them. Within the last year, the University has strengthened its position by signing 12 new MoUs with various international universities and HEIs. In total, the University has more than 80 active MoUs with around 35 countries around the globe (Among these, we have 07 MoUs with Germany, 08 MoUs with Japan, 12 MoUs with Russia, and 06 MoUs with South Korea).

Though there are already ongoing MoUs with Foreign Universities, below listed MoUs are signed during the period covered by this Annual Report.

List of MoUs signed during April 1, 2023 – March 31, 2024

S.No.	Partner University	Date of Signature
1	University of Seoul, Korea	June 2023
2	Adam Mickiewicz University in Poznan, Poland (Erasmus+ IIA)	June 2023
3	French Language Assistant Program, Embassy of France (GRS)	June 2023
4	Freie Universitat Berlin, Germany, Erasmus+ IIA KA171	June 2023
5	University of Iceland, Iceland (Chemistry), Erasmus+ IIA KA171	August 2023
6	Freie Universitat Berlin, Germany Erasmus+ IIA KA171	June 2023
7.	Leiden University, Netherlands (Renewal)	September 2023

8.	National Research Tomsk State University, Russia (Librarian)	September 2023
9.	Financial University, Russia (MoU + SEA)	October 2023
10	Tarbiat Modares University, Tehran, Iran	October 2023
11	Hiroshima University, Japan	November 2023
12	Niigata University, Japan	December 2023
13	Tokyo University of Foreign Studies, Japan (Renewal, MoU+SEA)	December 2023
14	Erasmus+ IIA, University of Malaga, Spain (GRS)	January 2024
15	Erasmus+ KA 171 Program with University of Pedagogical University of Krakow, Poland	January 2024
16	Russian Foreign Trade Academy (MoU + SEA) (Commerce)	January 2024
17	University of Vienna, Austria (Renewal, GRS)	January 2024
18	Kyungpook National University, Korea	February 2024

Research

- Publication: There has been an increase of 13% (3290 to 3730) in research publications in Scopus Indexed Journals.
- Patents: As many as 11 patents have been granted/ published during this period.
- H-index: The H-index of the University has significantly increased from 230 to 273, indicating enhanced quality of research by our faculty members.

Institution of Eminence

The Institution of Eminence (IoE), University of Delhi, is committed to developing physical infrastructure, establishing and upgrading research laboratories, libraries, Central Instrumentation facilities, and IT & Networking facilities, and prioritizing research at the University. The major achievements/significant activities undertaken by the IoE during the financial year 2023-2024 are as follows:

Physical Infrastructure: To strengthen the physical infrastructure of the University, including the Academic and Administrative Building, Hostel cum transit accommodation, Health Centre, Recreational Facilities, etc., the following initiatives were taken.

- The IoE has released Rs. 70.25 crores to the NBCC for the construction of an Academic-cum-Administrative Building (Rs. 25.76 crores) and hostel-cum-transit accommodation (Rs. 44.49 crores).
- The IoE has released Rs. 17.65 crores for the vertical Extension of the Conference Centre, Construction of the WUS Health Centre, and extension of the Central Reference Library.
- The IoE has sanctioned Rs. 1.8 crores for the infrastructure development at Maharshi Kanad Bhawan for the Faculty of Technology, Faculty of Law, and Department of Commerce.
- The IoE has sanctioned Rs. 5 crores to the Faculty of Technology for infrastructure and laboratory development.

Research Infrastructure: The following steps were taken to strengthen the Central Instrumentation Facilities with high-end and sophisticated analytical instruments for students, researchers, and faculty members of Science Departments at the University and the constituent colleges of the University of Delhi.

- To purchase high-end instruments at the University Science Instrumentation Centre (USIC) at North Campus and Central Instrumentation Facility (CIF) at South Campus, around Rs. 16.33 crores have already been released.
- Financial support of Rs. 2.0 crores have been provided for the NUDE MICE facility to be created at the CIF (South Campus) for biomedical research and drug discovery.

Information Technology & Networking: The following steps were taken to strengthen the Information Technology & Networking, procurement of academic software, and High-performance infrastructure for cloud services at the University and the constituent colleges of the University of Delhi.

- The IoE has released Rs. 11.0 crores to the DUCC to purchase various academic software.
- The IoE has released Rs. 5 crores to the DUCC to establish Network, Augmentation, and Security Infrastructure in the University.
- IoE has released Rs. 5.15 crores to the DUCC for cloud-based services.

Library Resources: The following steps were taken to upgrade the existing library facilities to meet global standards, including e-books, databases, storage, organization, and retrieval of digital library resources among the University's libraries.

- The IoE has provided financial support of around Rs. 26.08 crores to the Delhi University Library System (DULS) for procuring various e-books (Perpetual databases from international publishers) and digital archives.
- The IoE has sanctioned Rs. 4.3 crores to DULS for the purchase of an Audio-Visual System, Computers, stand-alone computers, Kiosks, printers, and Patron Traffic Control.

Computer Labs: The following steps were taken to set up common computing facilities for the growth and development of teaching, research, and academic activities in the University.

- For Information technology Facilities, including computers for Faculties, NCWEB & Libraries, financial support has been provided. Around Rs. 5.72 crores have been released for developing various computer labs at the Faculty of Commerce & Business Studies, Faculty of Arts, Faculty of Mathematical Sciences, Delhi University Library System, and Faculty of Technology.

Research Activities: To strengthen and boost the research work of the faculty members in various Departments/Centres of the University, the Faculty Research Programme (FRP) and Major Research Project (MRP) were launched by the IoE.

- The IoE under the Faculty Research Programme sanctioned projects to the faculty members of the University/Colleges across various disciplines. A total of Rs. 8.0 crore was released.
- The IoE provided financial support in the form of the Major Research Project to the tune of approximately Rs. 0.9 crores to 17 faculty members of the University/Colleges across various disciplines to promote inter-disciplinary research.

Research Publication Awards: The IoE has instituted the Research Publication Award to encourage University researchers to publish their quality research work in top-rated high-impact journals and contribute to enhancing the quality of their scientific research.

- So far, 36 research papers have been selected for the Research Publication Awards, and a sum of Rs. 0.36 crore has been sanctioned. These awards have been given under four categories: Category A (Rs. 5 lakh): 03; Category B (Rs. 2 lakh): 06; Category C (Rs. 1 lakh): 19; Category D (Rs. 0.5 lakh): 08.

Research Fellows and Post-Docs: To create a pool of talent that will help catalyze the high-end research at the University, the IoE has instituted College Fellows and Research Fellowship Programs.

- The IoE has provided financial support of around Rs. 0.90 crores for the post-doctoral fellowship program named Maharishi Kanad Post-Doctoral Fellowship.

Repair, Maintenance and Upgradation: The IoE has embarked on strengthening Central Instrumentation Facilities in the form of upgradation/renovation/maintenance in various Faculty/ Departments of the University.

- For already installed/existing instruments at CIF (North and South) and at CIF (Departments and Centers) financial support of about Rs. 2.5 crores have been provided for repair and maintenance.
- IoE has sanctioned Rs. 21.0 crores for the upgradation/renovation/maintenance in various Faculty/Departments.
- 52 Classrooms in various departments have been equipped with Interactive Panels with financial support of Rs. 2.1 crores.

University of Delhi Foundation

- (a) The Alumni Meet at the University of Delhi was organised on 21st April 2023.
- (b) The Centenary Year Meet of the Former Faculty of the University of Delhi was held on Thursday, June 15th, 2023.
- (c) The University of Delhi Foundation organized the first-ever alumni meet of Delhi University in Mumbai on September 2, 2023. The event, 'Aamchi DU,' was a grand celebration of the University of Delhi, attended by more than 350 distinguished alumni.
- (d) The Life Insurance Corporation (LIC) of India has donated Rs 26,80,202/—to purchase an Ambulance for the University of Delhi's Community. The university has procured the ambulance and will dedicate it to the WUS shortly.
- (e) LIC has approved a grant of Chair Professorship to the Department of Commerce, University of Delhi. The modalities are being worked out.
- (f) Donations Received through the University of Delhi Foundation:
Through the University of Delhi Foundation, a total amount of Rs 1,61,59,202/- has been raised till 25.03.2024 which has been deposited in the Endowment Fund of the University of Delhi.
- (g) The University of Delhi Foundation recently designed two projects: the *Sashakt Beti* Project and the *e-Drishti* Project.

Sashakt Beti Project aims at empowering the female orphan students and single-parent girl students (with a yearly income of less than Rs 4 Lakh) of the University of Delhi and its constituent colleges and departments by giving free branded new laptops. In the first phase, it is proposed that Rs 5 Crores (1,000 x 50,000) be raised for the same.

e-Drishti Project aims at empowering Visually Impaired students of University of Delhi and its constituent colleges and departments by giving free tablets along with a specially designed AI-driven application. In the first Phase, it is proposed to raise Rs 2.5 Crores (1,000 x 25,000) for the same.

BSES Discoms (BRPL & BYPL) of Reliance Power has approved giving 300 laptops and 300 e-tablets (Total cost being Rs 2.25 Crore).

Udhmodya Foundation

Udhmodya Foundation has incubated 5 companies out of the identified 24 start-ups from the Start-up Accelerator Programme (SAP held in 2023). Funds have been sanctioned to 3 of these start-ups, to be disbursed in tranches. Another 6 start-ups are in the pre-incubation stage. Udhmodya Foundation has launched a special call for Start-ups under the Social Sustainable Category on 01st Jan 2024 under the Viksit Bharat Scheme.

Financial data

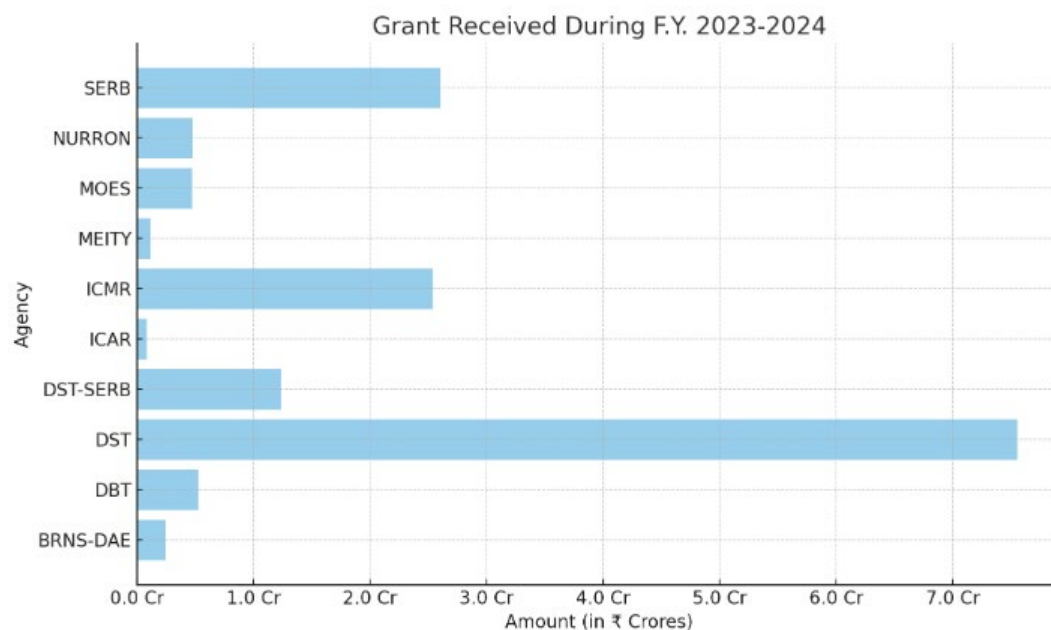
Amount of Grants Received from the funding agency is as follows:

Year 2023-2024	Amount of Grant Received 2023-24	Amount of Expenditure 2023-24
Salary Head (OH:36)	44974.00	44614.33
Recurring Head (OH:31)	31865.00	49738.15
Capital Assets (OH:35)	1000.00	1160.16

The quantum of Internal Resource Generated was 23459.00 Lakhs.

Extramural Grants

The faculty members of the University have been able to secure grants for research from several funding agencies. The cumulative amount of grants so received from the funding agencies are represented in the graph below:



GIA: Rs. 778.39 Crores Allocated for 2023-24 + Rs.32.83 Crores under EWS for Infrastructure Development against allocated amount of Rs.120.00 Crores.

HEFA: Rs. 938.33 Crores funding from HEFA approved by the Ministry of Finance for 7 Projects. The university has applied to HEFA for sanction of two projects amounting to Rs. 261.33/- Crores.

ENDOWMENT FUND: Rs 1,61,59,202/- collected through the University of Delhi Foundation

PROJECT FUND: Rs.137.00 Crores

Institution of Eminence (IoE): IoE has sanctioned Rs. 381.19 Crore for research projects/ medical equipment /IT Infrastructure/ upgradation/ construction activities of the University.

Girls Hostel: Smt. Smriti Irani, Union Minister of Women and Child Development, has sanctioned Rs. 272 crores for Residential Accommodation for girls and working women pursuing higher education at the University under the Nirbhaya Fund. This project will provide 1000 beds with enhanced security, CCTV surveillance and gender-sensitive amenities.

The University is also going to receive sanction of funds from the following:

- The Ministry of Minority Affairs has approved the proposal from the University of Delhi to establish the 'Centre for Advanced Studies in Buddhist Studies' at the University at an estimated cost of approx. Rs. 35 crores under its scheme viz. Pradhan Mantri Jan Vikas Karyakram (PMJVK) and "Buddhist Development Plan" (BDP)
- The Union Ministry of Minority Affairs has also sanctioned Rs 25 crore for the establishment of the "Centre for Gurumukhi Script" at the Sri Guru Tegh Bahadur Khalsa College of the University under the 'Pradhan Mantri Jan Vikas Karyakram' (PMJVK).

Renovation / Construction

Major Special Repair and Renovation:

Name of the Project	Amount	Remarks
A. Arts Faculty	4 Crores	Likely to be Completed
B. Gwyer Hall	2.4 crores	Likely to be completed
C. Jubilee Hall	4 Crores	Likely to be completed
D. Record Room of University	2 crores	Likely to be completed
E. Convention Hall of Arts Faculty, Tagore Hall, Shankar Lal Hall	11 crores	Work has been awarded & likely to be completed.

Constructions:

	Name of the Project	Amount	Remark
1.	Construction of Computer Centre	87 crores	Likely to be completed.
2.	Vertical Extension of Physics and Chemistry Block	17 crores	Likely to be completed.
3.	Pragyan Bhawan near Faculty of Management Studies	29 crores	Likely to be completed.
4.	WUS Health Centre Building	36 crores	Likely to be completed.
5.	School at Maurice Nagar	27 crores	Likely to be completed.
6.	Building of IoE at Maurice Nagar	330 crores	Likely to be completed.
7.	Extension of Library	110 crores	Phase-I likely to be completed.
8.	Faculty of Technology	195 crores	Likely to be completed by December 2025
9.	Student Activity Centre at North Campus near Satyakam Bhawan	7.5 crores	Likely to be completed by March 2025

Details of Statutory Meetings

The University has conducted the following meetings in 2023-24:

NAME OF THE STATUTORY BODY	NUMBER OF MEETINGS HELD
University Court	01
Executive Council	06
Academic Council	05
Finance Committee	03
Standing Committee on Academic Affairs	08
Standing Committee on Students	05

Recruitment & Promotion

- (i) 4556 Assistant Professors/ Associate Professors/ Professors/ Principals/ Directors have been appointed in various Colleges/ Departments of the University.
- (ii) 6388 cases of teachers in the University/ Colleges have been processed, and subsequently, teachers have been promoted.
- (iii) A total of 1494 Non-Teaching staff have been appointed/ promoted /granted MACP in the University and Colleges.

Centenary Celebrations

A year-long Centenary Celebrations was successfully conducted where more than 40 programmes were organised at the University level and similar number of programmes were organised at the level of the Departments and Centres. A glimpse of the programmes held during the period covered by this Report is provided below.

International Conference on Academic Libraries & Transforming Academic Libraries: Evolution, Innovation, Quality, Transfiguration

The University organised a three-day International Conference on Academic Libraries (ICAL-2023) as part of centennial celebrations starting from 05th April 2023. The conference aimed to develop a vision for the next generation libraries and provide an international forum to all stakeholders to deliberate, dwell and brainstorm upon the diverse and enormous role that academic libraries may play in enhancing the higher education landscape in developed and developing countries with special reference to India by 2030. The scope of the conference was: Knowledge Sharing, ICT Management, New Education Policy 2020, Digital Repository, Indian Knowledge System, Library and Research Ecosystem, Library-Faculty Collaborations, and User-centric Services.

The Hon'ble Vice Chancellor, Prof. Yogesh Singh inaugurated the conference. Prof. Singh emphasised that knowledge should be in an open system only then can it be accessible to all. He further said that India had a tradition of learning by-heart during that period which kept that knowledge and source of knowledge alive. He also said that today we have modern systems of written storage of knowledge. He also informed that the government has established the National Digital Library of India. Soon all the libraries in the country will be connected.

Dr Vadim Duda, DG, Russian State Library was present as the keynote speaker. He also said that knowledge should not be held back but should be shared. He said that intellectual property is the greatest wealth and the meaning of digital is not only to convert books and papers into PDF form but to mould them completely in digital forums. He further said that in order to save knowledge wealth for future generations, we have to set new standards for the system of libraries.



Chris Cormack, original developer of Koha, being felicitated in the International Conference on Academic Libraries & Transforming Academic Libraries: Evolution, Innovation, Quality, Transfiguration.

International Conference on Mahatma Gandhi and Gandhism Today: Energising India's Relations with Africa

The Department of African Studies organised a two-day International Conference on 'Mahatma Gandhi and Gandhism Today: Energising India's relations with Africa'. Diplomats from Ghana, Gambia, Zimbabwe and Madagascar participated in the Inaugural programme on the 6th of April 2023. The presidential address by Prof. Yogesh Singh oriented the foreign dignitaries with the historical significance of the Vice Regal Lodge as the abode of the Viceroys of India, and the venue of the Gandhi-Irwin pact in 1931. He touched upon the contemporary relevance of Gandhi and his ideals, and the role played by Africa in making Gandhi a Mahatma. He highlighted the scope of mutual benefits that could be reaped out of strengthening India-Africa relations by way of economy, trade and even university exchange programs.



Inaugural session of International Conference on Mahatma Gandhi and Gandhism Today presided by the Hon'ble Vice Chancellor, Prof Yogesh Singh

The keynote speaker Ms. Reema B. Robbie, a diplomat from Mauritius, spoke about the myriad ways in which Gandhi inspired leaders like Nelson Mandela and Martin Luther King Jr. She highlighted the political and economic partnerships between the two nations in the realm of trade, blue economy, education, healthcare, and technology, among others and emphasised the deep-rooted ties between the two countries in the fight against apartheid; cooperation for food security; digital and scientific research and public healthcare. Dr. Richa Sharma, Deputy Director, ICSSR elaborated on Gandhian jurisprudence and his perception of the legal profession.

Centenary Alumni Evening

A Centenary Alumni Evening was organised on April 21, 2023 at Vice-Regal Lodge to celebrate the achievements and contribution of the innumerable alumni who had passed out of the University over hundred-years of its journey and had made the University proud by their achievements.

The programme was attended by many eminent alumni of the University from diverse walks of life. Shri Hardeep Singh Puri, Union Minister of Petroleum and Natural Gas & Housing and Urban Affairs, Govt. of India, and an alumnus of the University was the Chief Guest at the function. Shri Hardeep Puri fondly recalled his days as a student at Hindu College, and the role that the University had played in shaping him and his peers. He lauded the vital role played by his alma mater in generating many distinguished luminaries from multiple domains, who had been greatly instrumental in the overall development of the country. He also complimented the University for establishing the 'University of Delhi Foundation', which is a not-for-profit company incorporated under Section 8 of the Indian Companies Act 2013.



Distinguished Alumni gracing the Centenary Alumni Evening

The programme also saw the unveiling of the logo of University of Delhi Foundation and the launch of its website. In his Presidential Address, Prof. Yogesh Singh, Hon'ble Vice Chancellor elucidated the glorious hundred-year journey of the University, as also the plethora of new initiatives that the University was embarking upon to establish the University among the most premier universities of the world. This was followed by an engaging interaction wherein many alumni shared their experiences and nostalgic memories of their student days and recounted the contribution of the University in evolving them. The evening concluded with a reunion dinner at the historic lawns of the Vice Regal Lodge.



Shri Hardeep Singh Puri, Union Minister of Petroleum and Natural Gas & Housing and Urban Affairs, Govt. of India, an alumnus of the University, addressing the august gathering

‘Mann Ki Baat: Empowering Divyangjan" A Dialogue on Social Transformation

A programme on ‘Mann Ki Baat: Empowering Divyangjan" A Dialogue on Social Transformation was organised on April 27, 2023 at the Convention Hall of the University. The event was organised as a dialogue on the social transformation originating from the radio programme, Mann Ki Baat, addressed by the Hon’ble Prime Minister of India, Shri Narendra Modi.



Event Mann Ki Baat: Empowering Divyangjan presided by Prof. Yogesh Singh, Hon'ble Vice Chancellor.

The programme is an expression of various pertinent issues which concern the citizens of country in large. The event started with the welcome address of Registrar, Dr. Vikas Gupta, where he elaborated upon the genesis and context of Mann ki Baat. He elaborated upon the vision of the programme as to create a two-way dialogue between the Prime minister and the community at large. This was followed by Prof. Bipin Tiwari, Nodal officer, Persons with Disability (Divyangjans), giving the keynote address.

Dr. Sunita Singh, Assistant Professor, Department of Education, University of Delhi, presented two papers, titled 'Impact of Mann ki Baat on Divyangjans: A case study of Divyang University', published in Delhi University and 'Social Transformation in Divyangjans' lives through community reflections', published by Indian Council of Social Science Research (ICSSR). The session was concluded by the address of Hon'ble Vice Chancellor Prof. Yogesh Singh, who started with congratulating Dr. Sunita Singh for the topic and well-articulated presentation. He stated that the Hon'ble Prime Minister used the platform of Mann ki Baat only to share positive thoughts and never let it become a political platform, while providing a voice to the common people to give suggestions and feedback. He stated that a programme which has an audience of 23 crore people is bound to have an impact. He added that feedback give a reality check to the systems functioning for the people.

Panchang and Bhartiya Gyan Parampara

The University launched its Hindu Calendar, also known as Panchang, and distributed more than 1000 copies of it, on April 28, 2023 at the Convention Hall. A Panchang is the annual compilation of the planetary movements. The event was presided by the Hon'ble Vice Chancellor Prof. Yogesh Singh and Shri Ramlal Ji was the Guest of Honour. During the launch, Hon'ble Vice Chancellor Prof. Yogesh Singh shared his thoughts that the Pachang will be awakening self-respect among Indians. He elaborated that detailed information about all festivals, eclipses, dates etc. has been given in the Panchang, further adding that the National Education Policy 2020 too is based on the Indian knowledge tradition. Prof. Niranjan Kumar elaborated the Indian Pachang has tithis, Vaars, Karan, Nakshatra and Yoga as well as festivals and important dates in addition to the regular feature of a calendar.



Launching Hindu Calendar - Panchang

DU Centenary Smart Village Project

The Thematic Committee for Institutional Social Responsibility (ISR), convened by Prof. Pankaj Arora, Dean Students' Welfare, assumed the responsibility for spearheading several social initiatives to mark the Centenary Year. As part of its Institutional Social Responsibility, the University adopted the Jaunti village community with the aim of developing it as a smart village, with special focus on education. Jaunti village is located in the Kanjhawla Sub Division in the North West District of Delhi and is 32 kms away from the North campus.

The University Smart Village team-initiated work in the month of March 2022. With the primary objective of setting up a *Yuva Urja Kendra* (Career Guidance Centre), the team set out to mobilize the village youth to become its members. The Yuva Urja Kendra is intended to act as an information hub for students' pursuing competitive tests such as CUET, JEE or NEET. Informative sessions on CUET have been held. The Kendra will also motivate students, especially girl students, to pursue higher education. Efforts are also on-going for establishing a Community Knowledge Centre in the village.

The process entailed meetings with RWA members and local people; engagement with village functionaries, school administration and school children. A medical camp, wherein the CDMO Dr Meenakshi and NSS volunteers, under the leadership of Prof. Mamta Sharma, Principal, Aditi Mahavidyalaya, helped in generating awareness about health. Several infrastructural development initiatives have also been undertaken with community participation, such as the repair and paint of the Panchayat Bhawan.

Educational Awareness & SDG-4

The Youth Leadership Program catered to undergraduate students of colleges, and through this many national and international trainers-oriented students on life skills, leadership techniques and youth employability, among others. Under the University School Interface, senior students from government schools were oriented to the idea of sustainable educational awareness and critical life skills. The University Community Interface established a core link with a nearby community and augured need-based intervention in conjunction with the Unnat Bharat Abhiyan. Through this interface, Peer Youth Leadership Training, focusing on developing digital competencies, commercial skills, health care and awareness, child care and education, family and societal welfare, communication, critical thinking/problem-solving, and self-management was developed. These programmes with university and community stakeholders are intended to further resonate with the spirit of India's G20 leadership.

Magic Show

The Culture Council organized a Magic Show on May 3, 2023 as a part of the Centenary Celebrations. It was presided by Hon'ble Vice Chancellor, Prof Yogesh Singh and attended by a large audience and was a remarkable fusion of science and ancient arts. The magician, Jadugar Samrat Shankar, captivated the audience with his exceptional performance. Utilizing a combination of card tricks, disappearing acts, and illusions, he left the spectators mesmerized and spellbound.



Magic show presided by Hon'ble Vice Chancellor



Jadugar Samrat Shankar in action

Centenary Cricket Match

Yet another event that was held to symbolize the festive spirit of the Centennial Celebrations and to foster the essence of team spirit and sports in the University arena was the Centenary Cricket Match. Held on May 12, 2023 at the Rugby Stadium in the University Sports Complex, it was played between the Vice Chancellor XI and the Alumni XI teams. The Vice Chancellor XI was captained by the Vice Chancellor, Prof. Yogesh Singh and included notable officials of the University, such as Prof. Balaram Pani, Dean of Colleges, Prof. Rajni Abbi, Proctor, Dr. Vikas Gupta, Registrar, Prof. Pankaj Arora, DSW, among others. The winning Alumni XI, led by Nitin Malik, Registrar, AUD, Siddharth Sahib Singh, Ranji Player & DDCA Secretary, Himanshu Rana, Under-19 India Captain, Ankush Bains, Under-23 India Captain, Prof. Chandra Sekhar Dubey, VC, K.R Mangalam University among others.

On the occasion, Prof. Yogesh Singh emphasized the importance of sports in human life and advocated for its inclusion in the curriculum at all levels of education. Renowned commentator Padma Shri Dr. Ravi Chaturvedi, who began Hindi commentary on All India Radio in 1961, was honored during the event, along with other distinguished sports achievers such as Shri Manjit Dua, Shri Jagmendra Singh, Shri Bhanu Sachdeva, Shri Bhupendra Dhawan, and Ms. Anju Luthra. In a closely contested match, the Alumni XI emerged as the victors, chasing down a target of 129 runs set by the Vice Chancellor XI. The match greatly energized the participants and the spectators and provided multiple entertaining moments.



Cricket match between Vice Chancellor XI & the Alumni XI Teams

Centenary Year Meet of the Former Faculty of the University

The Centenary Year Meet was a celebratory get-together of the former faculty members across the departments and colleges of the University. The Meet was organised on the evening of June 15, 2023. It was ordained to be a special tribute to honour the collective enterprise, dedicated efforts and invaluable contributions of the esteemed former teachers in enabling the University to chart such an illustrious trajectory of one hundred years.

The programme was jointly organised by the University of Delhi Foundation and Centenary Celebration Committee of the University and was attended by almost 350 former faculty members. It was chaired by Hon'ble Vice Chancellor, Prof. Yogesh Singh. A few former teachers shared their nostalgic memories, narratives and expressed their appreciation for the University for organizing the first ever event of the former teachers in its historic Centenary Year. Shri Jagdish Mukhi ji, Former Governor of Assam and an alumnus of the University was the Chief Guest. Recounting his choicest memories of his student days, he congratulated the University fraternity for its vibrant celebratory spirit and multiple advancements being undertaken in its Centenary year. Many distinguished former faculty members were felicitated by the Hon'ble Vice Chancellor, Prof. Yogesh Singh on this occasion. Indeed, the Meet served as a platform for the reunion of esteemed academicians; an occasion to celebrate their accomplishments; and an opportunity to foster meaningful connections between generations of teachers.



Centenary Year meet of the Former Faculty members

Centenary Valedictory Ceremony

Hon'ble Prime Minister of India, Sh. Narendra Modi visited the University on June 30, 2023 to mark the historic Valedictory Ceremony of the Centenary Celebrations of University of Delhi. It was a magnificent sight to witness the much-anticipated moment when the Hon'ble Prime Minister of India & Union Education Minister graced the occasion with their vivacious presence. The Hon'ble PM laid the foundation stones of 3 new buildings viz., Faculty of Technology, Delhi University Computer Centre & Academic Block with a total estimated cost of over ₹700 crores.

The event was also attended by notable DU alumni, eminent academicians, Heads, Deans, Principals and over 2000 plus newly recruited faculty members from various colleges of DU. It was a once in a lifetime opportunity for everyone to be a part of this extraordinary occasion.

The Hon'ble Vice Chancellor, Prof. Yogesh Singh, delivered the welcome address. He began his speech by greeting the Hon'ble Prime Minister of India, Shri Narendra Modi, the Minister of Education, Shri Dharmendra Pradhan and the ecstatic audience. He emphasized on the two ways which made the day even more special. He stated that the University of Delhi has completed 100 years and the Prime Minister of India, Shri Narendra Modi visited the university on this auspicious day. The twin occasions will forever be etched in the history of this University for all times to come. He extended his warm welcome and gratitude to the PM, whose courageous, benevolent and selfless persona has inspired and strengthened the country. He praised the PM for personifying the DU slogan "निष्ठा धृतिः सत्यम्" which stands for dedication, steadfastness, and truth – the three major attributes of the University of Delhi. He congratulated the Minister of Education, Shri Dharmendra Pradhan for the successful implementation of the mammoth and ground breaking NEP-2020 at the University of Delhi. He thanked the PM for his unflinching support to conduct the recruitment drive in mission mode. He recalled the constant contribution of the University of Delhi in nation building. Since the times of independence struggles, University of Delhi has been on the forefront by producing freedom fighters, scientists, doctors, bureaucrats and most importantly responsible citizens. The VC assured that University of Delhi is going to contribute to nation building tirelessly for all times to come. He emphasised on the role of the teachers in creating a Viksit Bharat by the year 2047 which is the mission of the Prime Minister and motivated the teachers in taking up this responsibility. Citing the extraordinary prowess of the teachers and the central role they play in building a strong nation, the VC said that the hope of the future lies with them. He ended his speech by extending his warm gratitude to the Hon'ble PM, Minister of Education, and the audience for being present on this glorious day.

Greeting the Minister of Education, Vice Chancellor, hundreds of eminent DU Alumni and newly recruited faculty members, the Hon'ble Prime Minister, Shri Narendra Modi shared his joy of visiting the University of Delhi. He stated that for youth, being a DU student is considered as a huge milestone. The PM said that coming to DU is equivalent to being a part of DU fests and the expressed his immense happiness in being a part of this festive season as DU celebrates its 100 years of existence in its Centenary Year. He congratulated the University of Delhi on completing 100 years and celebrating its Centenary Year at a time when Bharat is celebrating its Amrit Kaal. Recalling the glorious history of the University, the PM congratulated all the stakeholders of the university for being a part of this centennial moment.

Striking an immediate chord with the DU Alumni and students, the PM spoke on the beauty of university life and the little joys of campus life like scrolling with friends and colleagues. He talked about the famous recreational spots around North Campus like Kamla Nagar, Hudson Lane and Mukherjee Nagar; and the area of Satya Niketan in DU South Campus which are cherished by every DUite in their student days. While reflecting upon the motto of DU "निष्ठा धृतिः सत्यम्", the PM said that the motto serves as the guiding lamp for the students.

Taking his address forward, the PM said that it is only knowledge which is true bliss and true happiness and called knowledge as the essence of life. The PM evoked the golden past of Bharat, with its universities in Nalanda and Taxila as the guiding source of wisdom for the whole world. Ancient Bharat was prosperous and contributed vastly to world GDP until Bharat came under foreign rule which slowed down our progress. After Independence the Universities played a vital role in creating a resilient youth and he mentioned that DU has played a key role in this.

He reminisced about the history of University of Delhi, from consisting only 3 colleges in 1922 to having more than 90 colleges today 100 years later. The growth of DU is reflected in its gender ratio as well where the number of female students has increased exponentially over the years. He emphasized on the interconnection between the growth of a country and strong roots of its universities and other educational institutions and said that our next mission is to create a Viksit Bharat by 2047. Talking about the increasing influence of Bharat at the world stage, he mentioned that Indian values of democracy, equality and mutual respect are now becoming the humanistic parameters for the world at large. PM also mentioned how leading multinational companies are looking towards us as an investment haven owing to the recent policies of the Government of India.

The PM said that Indian teachers have created their own niche in the field of education and how Indian teachers are renowned all over the world. He drew light upon the new holistic idea of education introduced by NEP 2020 which makes the education student-centric and allows them to choose what they want to learn. At the same time, he spoke on the role of National Institutional Ranking Framework (NIRF) in keeping the quality of educational institutions intact and make improvements within the education sector. It is a result of these futuristic policies and implementation of NEP-2020 that has led to increase in reputation of Indian universities throughout the world. This reflects in the number of Indian universities being increased from 12 in the year 2014, to 45 in the QS World Rankings. Growing interest of youth in entrepreneurship has also played a great role in it with an increased number of over 1 lakh startups. The position of India has scaled up from 80 to 46 in the Global Innovation Index. The PM also spoke on the growing opportunities in the field of technology, AI, AR/ VR, Robotics as well as arts, heritage, culture and tourism. He informed the audience about the growing interest of foreigners to learn more about the legacy and rich culture of India, especially since its successful strategy to deal with covid crisis and help other nations as well along with India's presidency of G20 summit.

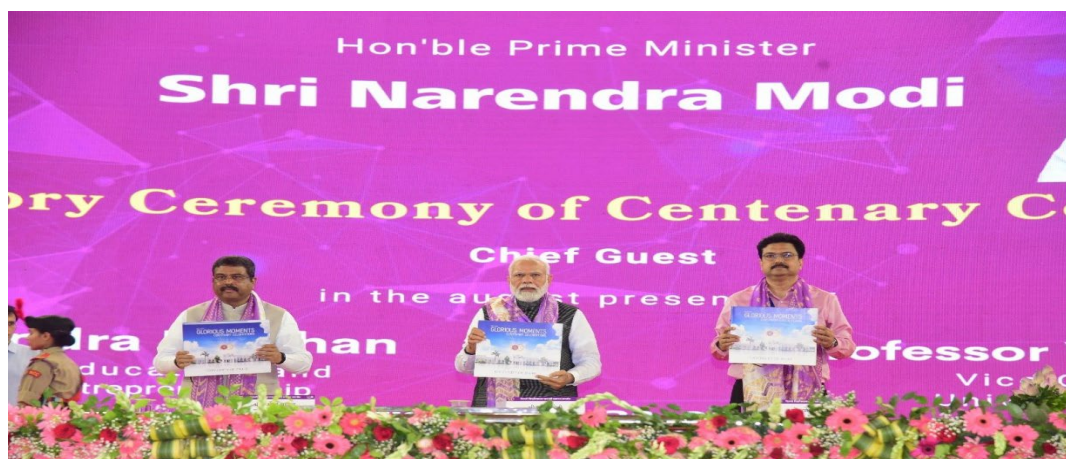


Valedictory Ceremony of Centenary Celebrations graced by the Hon'ble Prime Minister, Shri Narendra Modi

The Hon'ble Prime Minister, Shri Narendra Modi concluded his speech by motivating the teachers to inculcate the qualities and values which can make the students persistent citizens having the temperament of facing and resolving challenges. He emphasized on the need for the University of Delhi to create a roadmap to be a top-ranking university when it celebrates its 150 years completion, while at the same time keeping alive the essence of its rich and vibrant campus culture. Again, congratulating the entire University of Delhi upon completing 100 years, the PM expressed his strong belief that DU will continue achieving its high ideals in the future.



Laying Foundation Stone of Academic Block of University of Delhi by Hon'ble Prime Minister, Shri Narendra Modi in virtual mode.



Release of the book – "Glorious Moments"-Centenary Celebrations by the Hon'ble Prime Minister, Shri Narendra Modi, Hon'ble Minister of Education and Skill Development & Entrepreneurship, Shri Dharmendra Pradhan and Hon'ble Vice Chancellor, Prof Yogesh Singh.



Address by Hon'ble Prime Minister of India, Shri Narendra Modi

Address by Shri Dharmendra Pradhan, Hon'ble Minister of Education and Skill Development & Entrepreneurship



Faculty Awards and Honors

Departments

- Tanuja Nesari, Director of the **All India Institute of Ayurveda (AIIA)**, was awarded the Lifetime Achievement Award by AIASPGA (All India Ayurveda Specialist PG Association) for her contribution to Ayurveda.
- Sujata Rajan of **Ayurvedic & Unani Tibia College** received ISSN International's best research award for the article "The Soothing Effects of Shirodhara: Alleviating Stress through an Ancient Ayurvedic Technique".
- Manoj Shamkuwar of **Ayurvedic & Unani Tibia College**, along with other authors, has been awarded a copyright for "Standard Operating Procedure of Pizhichil," Reg no L-137211/2023, dated 06/12/2023.
- Mridula Gupta of **Department of Electronics** International Research Awards on Advanced Nanomaterials and Nanotechnology under the category of Best Researcher Award in December 2023.
- P. Koteswara Rao of the **Department of Electronics** has been awarded a Research publication award for his paper, "Core-shell heterojunction interface in green synthesized Sm³⁺ ions doped ZnO nano-particles to promote the charge separation for efficient photocatalytic applications."
- Manoj Prasad of the **Department of Genetics** has been awarded a DST-SERB-sponsored J.C. Bose National Fellowship.
- Anil Grover of **Department of Plant Molecular Biology** is awarded a INSA Senior Scientist fellowship given by INSA in the year 2023
- Girdhar K. Pandey of **Department of Plant Molecular Biology** is awarded a Prof. Shri Ranjan Memorial Award by National Academy of Sciences (NASI) in the year 2023
- Cholaraja M. of **Campus Law Centre** was Honored with the "Indo-Thai Educational Excellence Award for the Best Teacher and Researcher in Law" at the WIRIC - SBPM - HLLSE - 2024 conference held on January 27-28, 2024, at Phranakhon Rajabhat University, Bangkok, Thailand.
- Anita Yadav of **Campus Law Centre** received an international fellowship from the United Nations to attend the fifty-seventh International Law Seminar (ILS) session at the United Nations Office, Geneva, from July 3 to 21, 2023.
- Vivek Suneja of the **Department of Business Management and Industrial Administration** received the Odhini Leadership Award for excellence in life for FMS in 2023.
- Chandra K. Jaggi of the **Department of Operational Research** received the Distinguished Educator Award in Mathematics from the Operational Research Society of India on December 8, 2023.
- T.V. Manikandan of the **Department of Music** received Life Time Achievement Award (Sangeeta Vidwan) given by Sangeetha Samajam (Regd.), KRJ Music School, Madurai - New Delhi.

- Smriti Tripathi of the **Department of Music** received Swar Kokila Lata Mangeshkar Samman – 2024 from Sampark Kranti Pariwar, Noida, U.P., held on 16.03.2024.
- S.M. Patnaik of the **Department of Anthropology** was Selected as Senior Vice President, International Union of Anthropological and Ethnological Sciences (IUAES), 2023 - 2027.
- S.M. Patnaik of the **Department of Anthropology** was Appointed as a member of the Steering Committee of the World Anthropological Union (WAU), 2024 - 2027.
- P.R. Mondal of the **Department of Anthropology** was appointed Honorary Professor of the Centre for Multi-disciplinary Development Research (CMDR), Karnataka (INDIA)
- Diwan S. Rawat of the **Department of Chemistry** was Appointed Vice Chancellor of Kumaun University, Nainital.
- M. D. Milton of the **Department of Chemistry** was appointed as an Associate to the American Chemical Society (ACS) Committee on Chemical Safety (2024).
- Shailender Kumar Verma of the **Department of Environmental Studies** was awarded a Newton International Fellowships Alumni award by the Royal Society (London), United Kingdom (2023). Global Outreach-Contributing member of the American Society for Microbiology, USA (2023).
- Inderjit of the **Department of Environmental Studies** was Awarded the JC Bose National Fellowship grant. He also received an Excellence Award conferred by the University of Delhi to recognize outstanding service and contributions to research and academic activities at the University.
- Sourav Sur of the **Department of Physics & Astrophysics** was a Visiting Associate at the Inter-University Centre for Astronomy and Astrophysics (IUCAA) -- continuing in 2023-24 till 2025.
- R. K. Negi of the **Department of Zoology** has been conferred an Honorary Fellowship (FHFSTC) Award: Himalayan Forum for Science and Technology Communication by Shoolini University, Solan (HP), India in 2023.
- Anindita Datta of the **Department of Geography** was awarded the prestigious Jan-Monk Service Award 2023 by the Association of American Geographers (AAG), Feminist Geography Specialty Group, for her contributions to feminist geography and service to women in geography in India.
- Sanjoy Roy of the **Department of Social Work** was awarded Dr B R Ambedkar National Award 2023 for outstanding performance in the field of Social Work by Dr. B R Ambedkar Sports Foundation (Organization in Special Consultative Status with United Nations' Economic and Social Council) at Indira Gandhi Sports Complex, New Delhi, India.
- Asha Tyagi of **Department of Anaesthesiology & Critical Care (UCMS)** was awarded the Fellowship of Indian College of Anaesthesiologists (FICA) for “mastering the art and science of Anaesthesiology and pioneering advancement of the speciality” at the 4th International and 14th National conference of the Indian college of Anaesthesiologists; Bengaluru;
- Ashok Kumar Saxena of **Department of Anaesthesiology & Critical Care (UCMS)** was awarded ‘ISA Ratna’ by ISA National on 25th November 2023.

- Renu Chauhan of **Department of Anatomy (UCMS)** received an award of excellence in Healthcare on the occasion of National multidisciplinary medical Conclave on 23.4.2023. She also received an award by Physicians Forum of India on doctors' day for teacher and mentor par excellence on 28.6.2023.
- Rakhee Sharma of the **Department of Anatomy (UCMS)** received the Best Young Excellence award on 5th January 2024 at the 31st annual conference of NAI.
- Ankana Saha of the **Department of Anatomy (UCMS)** received Best Teacher Award 2023 (Higher Educational Institution level) by the InSC Institute of Scholars.
- Sankat Mochan of the **Department of Anatomy (UCMS)** received the Dr H.J. Mehta Memorial Award for the published article in the 70th NATCON, 2023, at Arunachal Pradesh.
- Vikrant Mohanty of **Department of Dental Sciences, Maulana Azad Institute of Dental Sciences** was awarded the FAIMER Fellowship.
- Harpreet Grewal of **Department of Dental Sciences (UCMS)** awarded Fellowship of World Federation of Orthodontists.
- Vibhu Mendiratta of **Department of Dermatology, Venereology & Leprosy (LHMC)** was awarded VN Sehgal award by IADVL for special achievements in Dermatology in 2023 in the National Conference of Dermatology at Mumbai.
- Rashmi Sarkar of **Department of Dermatology, Venereology & Leprosy (LHMC)** was elected as Regional Director of International League of Dermatological Societies (ILDS) of South Asia, Middle East and Africa in 2023.
- Satish Kumar Verma of **Department of Forensic Medicine & Toxicology (UCMS)** was awarded with Distinguished Research Award by INSO, April 2023. He was also awarded "Vishishth Chikitsa Ratan" by the Delhi Medical Association, Delhi, on the occasion of Doctor's Day, 2023. He was also awarded "Chikitsa Guru Samman" by the Indian Medical Association, East Delhi, on Teachers Day, 2023.
- Kirti Nirmal of the **Department of Medical Microbiology (UCMS)** received distinguished service in the field of Academics on Doctors Day on National Doctors Day award at IMA Headquarters on 1/7/2023. She also received Vishit Seva Rattan award on Doctors Day on 02/07/2023 organized by IMA EDB.
- Amitesh Aggarwal of the **Department of Medicine (UCMS)** received Fellowship in Indian Society of Chronomedicine.
- Anshuman Srivastava and Shiva Narang of the **Department of Medicine (UCMS)** received a Fellowship from the Indian College of Physicians. Shiva Narang also received the State award for Exceptional work for persons with disability.
- Om Prakash of **Department of Ophthalmology (LHMC)** received an award of 'Outstanding Ophthalmic Teachers of India' at 7th national assembly of Forum of Ophthalmic Teachers of India (FOTI), Delhi 6-7 Jan 2024.

- Sarita Beri of the **Department of Ophthalmology (LHMC)** was awarded the honorary 'FAICO in Vitreo-retinal Surgery'. She was also awarded the Gold medal in Teachers of Future Session at AIIMS Delhi on 11 March 2024.
- Piyush Kumar Ramavat of the **Department of Ophthalmology (LHMC)** was awarded 'FAICO in Glaucoma' by the All India Ophthalmological Society on 12 May 2023.
- Neelima Gupta of the **Department of Otolaryngology (UCMS)** was awarded the Health Icon Award by the Integrated Medical Association on 2nd December 2023. She was also awarded the Top Reviewers Award at the Annual AOICON, Bangalore, for Reviewer of IJOHNS for outstanding review history.
- P. Dewan of the **Department of Paediatrics (UCMS)** was appointed Editor-in-Chief for Indian Pediatrics, the official journal of the Indian Academy of Pediatrics, for 2024-2026 w.e.f. 1/1/2024.
- Raj Kumar of the **Department of Pulmonary Medicine (VPCI)** was conferred the Outstanding Allergy Scientist Award 2023 from Bengaluru Allergy Foundation Bangalore, India, on 21st September 2023. He was also conferred Fellow, Royal College of Physicians of London, 2023.
- Natasha Gupta of the **Department of Radiology, Radiotherapy, Radiodiagnosis & Radiation Medicine (UCMS)** received the President Appreciation Award at the 76th Annual Conference of Indian Radiological & Imaging Association (IRIA) at Vijayawada, Andhra Pradesh, in January, 2024 (for Outstanding and Meritorious services rendered to the IRIA).
- Asmita Rathore of the **University College of Medical Sciences** was awarded the FOGSI Excellence Award 2023.
- Piyush Gupta of the **University College of Medical Sciences** was awarded the Outstanding Faculty Award. He was awarded the Top 50 Researchers award in India, Careers 360, Prime Minister Museum, New Delhi, October 3, 2023.
- Satendra Singh of the **University College of Medical Sciences** was Awarded the National Annual Award for Medical Humanities 2023 by the Pauranik Academy of Medical Education on 16 December 2023 in Delhi for championing the medical humanities movement in India.
- Shiva Narang of the **University College of Medical Sciences** received State award in 2023 for Exceptional work for persons with disabilities at Guru Teg Bahadur Hospital.
- Madhu Khanna of the **Vallabhbhai Patel Chest Institute** received the IVS Fellow award for eminent contribution to Medical Virology from the Indian Virological Society at VIROCON – 2023, ICAR-National Research Centre for Banana, Tiruchirappalli, Tamil Nadu on December 1, 2023.
- Bhawna Solanki of the **Delhi School of Journalism** was awarded the "Bharat Vibhushan Award-2023" by the National Book of Records.
- Sunit K. Singh of **Dr. B.R. Ambedkar Centre for Biomedical Research** was elected a Fellow of the National Academy of Medical Sciences India in recognition of his work in Molecular Virology. He was also awarded the Prof. CNR Rao Education Foundation Award.

FACULTY OF APPLIED SOCIAL SCIENCES AND HUMANITIES

FINANCE AND BUSINESS ECONOMICS

Major Activities and Achievements

The Department's flagship programme of MBA (Finance) (erstwhile Master of Finance and Control (MFC) and MBA (Financial Management)) is a niche course in finance designed and developed to cater to the ever-changing needs of the corporate world.

The Department was ranked 6th (out of 72) among All-India Top B-Schools in 13th All-India B-School Survey 2023 by CHRONICLE. 27th Rank (out of 45) among Top MBA Colleges (Government) in India 2024 Rankings by IIRF (Indian Institutional Ranking Framework). 1st Rank among 7 MBA Colleges in India with low Fees and Excellent Placements by India Today. Ranked under category AA by T.I.M.E. B School Categorisation

Publications

Scopus

Sehgal, S., Vasishth, V., & Deisting, F. (2024). Lottery factor and stock returns: Evidence from India. *Borsa Istanbul Review*, 24(3), 449-459.

Sharma, C., & Mishra, R. K. (2023). The great lockdown, uncertainty and trade: asymmetric impact on imports. *Empirical Economics*, 65(6), 2805-2836.

Verma, D., Dawar, V., & Chaudhary, P. (2024). Do audit attributes impact earnings quality? Evidence from India. *Asian Journal of Accounting Research*, 9(1), 25-34.

Chaudhary, P. (2023). Women directors, CEO duality and board structure: case of Indian firms' capital structure dynamism. *Global Business and Economics Review*, 28(4), 347-366.

Singh, R., Gupta, C. P., & Chaudhary, P. (2023). Dividend policy and corporate life cycle: a study of Indian companies. *Managerial Finance*, 49(11), 1722-1749.

Sinha, A., Sedai, A. K., Kumar, A., & Nepal, R. (2023). Are autocracies bad for the environment? Global evidence from two centuries of data. *The Energy Journal*, 44(2), 47-78.

Jain, A., Thukral, S., & Paul, J. (2024). Foreign market entry modes of family firms: A review and research agenda. *Journal of Business Research*, 172, 114407.

Thukral, S., & Singh, M. (2023). An exploratory study on producer's perspective towards E-waste management: A case of emerging markets. *Cleaner Waste Systems*, 5, 100090.

UGC

Arora, P. M., Kapur, H., & Dastidar, A. G. (2023). Credit, housing prices, expectations, and the macroeconomy. Evidence from developed and developing countries. *Theoretical & Applied Economics*, 30(3).

Books/Chapter in Books

Ananya Ghosh Dastidar (2024), The Indian Economy: Issues, Policies and Performance, *London*, Routledge, 9781032510637, -

Apra Sinha, (2023), Green Circular Economy: A New Paradigm for Emerging Economies, *Switzerland*, Springer Nature, 978-3-031-40303-3, 167-200

Research Projects

Apra Sinha - Co-PI - Economic Research Institute for ASEAN and East Asia, The Rise of Global Economic Uncertainty and Firm Behaviour, Rs.560000

Yamini Gupta, ICSSR, PM Fasal Bima Yojana: A study of effectiveness and impact on risk mitigation, income stability and well-being of farmers, Rs. 1400000

Sanjay Sehgal, ICSSR - Impact of ESG Score and Firm Quality on Corporate Performance: study for Asian Market

Seminars Organized

HR Summit

Organised by Department of Finance and Business Economics (MBA (Business Economics) programme) on 14-Oct-23

Ms Monica Dutta, Sr. Manager, Data & Insights, Microsave Consulting, Speaker Session: Data - Driven Solutions for Strengthening Financial Resilience, 11-04-2023.

Mr. Gaurav Singh, Director Consumer Insights at NielsenIQ, Philomathes: Potential Impact of Automation, Remote Work Changing Job Roles, 17-08-2023

Mr. Dev Budhiraja, Deputy Vice President at HDFC Bank. (Batch of 2009), Day with Alum: Fundamentals of Credit Risk, 26-08-2023

Mr. Gaurav Kumar, Senior Director, Cognizant, Philomathes: Future Trends in Technology and Consulting, 02-09-2023

Mr. Prashant Navin Gupta, Management Consultant at MasterCard, India, Speaker Session: Decoding Consulting, 09-09-2023

Mr. Tuhin Mishra, MD and Co - Founder at Baseline Ventures (Batch of 2000), Day with Alum: Navigating the Entrepreneurial Journey, 16-09-2023

Mr. Dheeraj Tiwari, Model Developer, Blackrock, Analytics Conclave: Python For Financial Modelling, 16-09-2023

Mr. Yogesh Sehgal, Head of India Finance Operation, NatWest Group, Speaker Session: Navigating the Future: Sustainable Finance and ESG Investing, 23-09-2023

Ananda Sarkar, Head, Retail Analytics at RBL Bank, Speaker Session: Using Numbers to Solve Real World Problems, 04-10-2023

Mr. Deepak Mann, Director - Marketing Effectiveness, Nielsen, Speaker Session: Marketing Mix Modelling, 12-10-2023

Mitali Nikore, Chief Economist - Nikore Associates & ET Consultant - World Bank, Speaker Session: Role of Entrepreneurship in the Economic Development of India, 19-10-2023

Dr. Yogendra K. Saxena, Former CSO, Tata Power, Karuna: Sustainability, Why and How?, 21-10-2024

Rajeev Bhatia, Ex - CMO, Relaxo Footwears, Day with Alum: Achieving Peak Performance After MBA: Insights and Strategies, 02-11-2023

Prof. Chetan Ghate, Prof. Vikram Dayal, Prof. Simanti Bandyopadhyay, Prof. Sujoy Chakravarty, Prof. Sukanya Das, Dr. Debadatta Saha, Dr. Kanishka Kacker, Dr. Rahul M., Dr. Debajit Jha, , Institute of Economic Growth (IEG), Institute of Economic Growth (IEG), Shiv Nadar University, South Asian University Jawaharlal Nehru University, Department of Policy and Management Studies, TERI School of Advanced Studies (TERI SAS), South Asian University, Indian Statistical Institute, Institute of Economic Growth (IEG), Jindal School of Government and Policy, O.P. Jindal University , Department, Faculty Development Programme: Empirical Tools in Social Science Research, 17-12-2023

Vivek Sharma - Head and Senior Vice President of the Energy Strategy Group, Adani Group, Head and Senior Vice President of the Energy Strategy Group, Adani Group, N.A>, Day with Alum: Energy Security in a Changing World, 04-01-2024

Mr. Raghvender Bhati, Director Analyst, Gartner, Philomathes: AI in India: Opportunities and challenges, 11-04- 2023

Mr. Manoj Dua, Mr. Gautam Babbar, Mr. Sourabh Moulick, Mr. Ashwin, Chadha, , President and CEO, Omaxe Limited, Head, Acquisition and Investments (North), Godrej Properties, Head, Partner Business, L&T Reality, CEO, India Southby's International Reality , Finance Insights 1.0 : Alternative Real Estate Investments: Diverging from Conventional Real Estate, 10-02-2024

Mr. Amit Chand - Chief Marketing and Product Ideator, DekhoEV, Chief Marketing and Product Ideator, DekhoEV, N.A>, Philomathes: Online Marketing: Understanding Dark Patterns, 15-02-2024

Mr. Gunjan Bhagovaty, Manager, SBI Capital Markets Ltd., Special Lecture: Investment Analysis of Infrastructure Projects, 17-02-2024

Mr. Sourabh Moulick Mr. Gunjan Bhagovaty, Manager, SBI Capital Markets Ltd. Delivered a Special Lecture on, 'Investment Analysis of Infrastructure Projects', on February 17, 2024., Head-Partner Business, L&T Reality, Special Lecture: Evolving Landscape of Real Estate Sector and Current Market Trends, 29-02-2024

Prof. Yamini Gupt, Dr. Amarnath Tripathi, Dr. Narendra N. Dalei, Dr. Sucheta Sardar, Dr. Pratap Singh Bithal, Dr. Anjani Kumar, Dr. CSC Sekhar, , Department of Finance and Business Economics, Jaipuria Institute of Management, Central University of Himachal Pradesh, BML Munjal University, ICAR-National Professor, Sr. Research Fellow, IFPRI, Professor, IEG , ICSSR, Dissemination Workshop: PM Fasal Bima Yojana: A study of effectiveness and impact on risk mitigation, income stability and well-being of farmers, 14-03-2024

Prof. Nagesh Kumar, Prof. Ananya Ghosh Dastidar, Dr. R. Rijesh, Dr. Anjali Tandon, Dr. Swati Verma, Dr. Beena Saraswathy, Director, ISID, Head, Department of Finance and Business Economics, Assistant Professor, ISID, Associate Professor, ISID, Assistant Professor, ISID, Assistant Professor, ISID, ISID, Capacity Building Workshop: Database for Industrial and Corporate Analysis, 28-03-2024

National/International MoUs Signed

Department of Finance and Business Economics, University of Delhi South Campus has collaborated with Center for International Scientific and Educational Projects, Financial University under the Government of the Russian Federation, Russia for joint research project and to conduct workshops.

Conferences Organized

Annual Convention – MBA (Finance)

The Department organized its 36th Annual Convention of MBA (Finance) Programme on “Green Footprints in Financial Services” on September 23, 2023.

Annual Convention – MBA (Business Economics)

Organised by Department of Finance and Business Economics (MBA(Business Economics) programme) on 04-Nov-2023.

ICSSR National Conference

Organised by Department of Finance and Business Economics (MBA(Business Economics) programme) on 17-Nov-2023

Seminar/Conference Presentations (National / International)

Yamini Gupta, 2023-04-10, delivered a talk titled “Contribution of Biodiversity Parks to Environmental Sustainability in Delhi”, in the seminar organized by India International Centre and Green Circle.

Yamini Gupta, 2023-06-05, delivered a talk titled “Ecosystem Services Provided by Plants in Biodiversity Parks” in the seminar organized by Neela Hauz Biodiversity Park

Sanjay Sehgal, 2023-07-03, presented a paper titled “The Performance of Beta, and Other Risk-Based Trading Strategies in Major Asian Markets” in Annual International Conference on Finance at Athens, Greece organized by Athens Institute for Education and Research.

Sonal Thukral, 2023-07-05, presented a paper titled “Foreign Market Entry Modes of Family Firms: A Review and Research Agenda” in the conference titled International Business Resilience under Global Disruptions organized by Academy of International Business.

Apra Sinha, 2023-07-24, presented a paper titled “Electricity Pricing and Regulation- Empirical Evidence from ASI data” in 24th Biennial Conference of AIEFS (Association of Indian Economic and Financial Studies) organized by IIT Madras.

Sonal Thukral, 2023-10-20, presented a talk titled “Ethical Horizons in Research in the seminar Global Ethics Day organized by Manav Rachna International Institute of Research and Studies.

Saurabh Singh, 2023-10-29, presented a paper titled “Exploring the Challenges of Behavioural Finance: A Study of Novel Paradigm”, in International Conference on Interdisciplinary Research and Socio-Economic Development: A Convergence of Technology, Management and Social Sciences organized by RES in association with Oxford College of Management.

Sonal Thukral, 2023-02-04, presented a paper titled “Factors Affecting the Internationalization of Indian Family Firms: A Quantitative Analysis” in Indian Council of Social Sciences Research sponsored National

Conference on Business Transformation: Challenges and Opportunities for Sustainable Growth organized by Research & Development Cell of Shri Ram College of Commerce, University of Delhi

Apra Sinha, 2023-11-09, presented a talk titled “Uncertainty Shocks, Labor Markdown, and Price Markup: Firm Level Evidence from ASEAN Countries” in the seminar organized by Economic Research Institute for ASEAN & East Asia Microdata

Sonal Thukral, 2023-11-29, presented a paper titled “Determinants of Family Firms” Internationalisation from Emerging Markets” in ICSSR Sponsored 6th International Conference of Multinational Enterprises and Sustainability Development (MESD '23) Association organized by Department of Commerce, University of Delhi.

Sonal Thukral, 2024-11-19, presented a paper titled “Is SME stock index vulnerable to the volatility of National Stock Exchange index? An empirical investigation” in 3rd International Conference on Management of MSMEs organized by Indian Institute of Management, Amritsar, in collaboration with Digman Cener of Entrepreneurship Robert H. Smith School of Business, University of Maryland, USA.

Yamini Gupta, 2024-01-31 presented a paper titled “Challenges and Opportunities in Climate Finance: India’s Role in Shaping Global Climate Finance” in Twelfth INSEE Biennial Conference SDGs and Climate Change: Understanding the Imperatives and Intersections organized by BML Munjal University.

Yamini Gupta, 2024-02-02, presented a paper titled “Valuation of Ecosystem Services in Aravalli Biodiversity Park” in Twelfth INSEE Biennial Conference SDGs and Climate Change: Understanding the Imperatives and Intersections organized by BML Munjal University

Apra Sinha, 2024-01-31, presented a paper titled “Has Competitive Electricity Pricing in India improved the Plant Level Performance in India?” in Twelfth INSEE Biennial Conference SDGs and Climate Change: Understanding the Imperatives and Intersections organized by BML Munjal University.

Apra Sinha, 2024-02-09, presented a paper titled “Open Access Reform and Electricity Tariff: Plant Level Evidence from India” in International Conference on Sustainable Development and Management Practices-2024 organized by IIT Dhanbad, Department of Management Studies.

Apra Sinha, 2024-02-13, presented a paper titled “Has Competitive Electricity Pricing in India improved the Plant Level Performance in India?” in The International winter energy conference organized by MDI Gurgaon.

Apra Sinha, 2024-03-07, presented a paper titled “Digitalization and material well-being” in International Conference on Recent Developments in Economics Research: Theory and Evidence organized by Centre for International Trade and Development (CITD), School of International Studies, Jawaharlal Nehru University (JNU)

Apra Sinha, 2024-03-14, delivered a talk on “The Rise of Global Economic Uncertainty and Firm Behavior” in the seminar organized by Economic Research Institute for ASEAN & East Asia, Makuhari, Chiba, Japan.

Other Inter-Institutional Collaboration: 1

Placement Details : 104

Extension and Outreach Activities

Genesis

Organised by Department of Finance and Business Economics (MBA (Business Economics programme) on 19-Aug-23.

Workshop

A workshop on “Win the Game of Life through Meditation” was organized in association with Science of Spirituality, New Delhi based NGO on August 26, 2023 at Arts Faculty Building, University of Delhi South Campus.

Annual Alumni Meet

The Department organized Annual Alumni meet for MBA (Finance) Programme in Mumbai and Delhi in September 2023, where a large number of alumni participated.

Synthesis

Organised by Department of Finance and Business Economics (MBA- Business Economics programme) on 28- Oct-23

Pahel

Organised by Department of Finance and Business Economics (MBA(Business Economics) programme) on 27- Jan-24

Debate

Organised by Department of Finance and Business Economics (MBA(Business Economics) programme) on 01-Feb-24 (Topic: "Is artificial intelligence a job creator or a job destroyer in the business world?")

Arthniti

Organised by Department of Finance and Business Economics (MBA (Business Economics) programme) on 03-Feb-24

MarkQuest

Organised by Department of Finance and Business Economics (MBA (Business Economics) programme) on 10-Feb-24

TEDxDFBEDU

Organised by Department of Finance and Business Economics (MBA (Business Economics) programme) on 18-Feb-24

(Metamorphosis of Humanity)

Reminiscence

Organised by Department of Finance and Business Economics (MBA (Business Economics) programme) on 25-Feb-24

The Annual Alumni Meet of Department of Finance and Business Economics. (MBA (Business Economics) programme)

Moolyankan

Organised by Department of Finance and Business Economics (MBA(Business Economics) programme) on 2-Mar-24

Imprints

Organised by Department of Finance and Business Economics (MBA (Business Economics) programme) on 16-Mar-24

Panel Discussion

The MBA (Finance) Programme of the Department organized a One-Day Panel Discussion on, “Fuelling the Fire: How VCs and Pes Ignite Startup Success” on March 16, 2024 at University of Delhi South Campus.

Vishleshan

Organized on 23 March 2024 by the (MBA (Business Economics) programme), it was a sizable gathering that featured speaker sessions, competitions, and an informative and intriguing panel discussion.

Speaker session: ‘Transforming Business Operations through AI - Powered Predictive Analytics & Prescriptive Insights’

Chapter Meet: Bangalore

Organized on 30th March 2024 by the (MBA (Business Economics) programme), this annual gathering of the Alumni of the department served as a catalyst for networking, collaboration, and the exchange of ideas.

Yoga Day - The Yoga Day was celebrated in the Department of Finance and Business Economics, University of Delhi South Campus on June 21, 2023 at 11.00 a.m. Faculty Members and non-teaching staff of the Department participated in the Yoga Session. Breathing exercises like, pranayam like, kalapalbhati, anulomvilom, Bhastrika and Bhramari were performed by the participants. The participants also performed yogasanas like, surya namaskar, tadasana, vrikshasana, adha mukho savasana, trikonasana, naukasana, bhujangasana, etc.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 04

Faculty Strength

Total : 14

Other Significant Information

Apra Sinha: Invited by Southampton Business School, University of Southampton (Russell Group University), United Kingdom to deliver lectures (International Banking and Finance module) for its flagship MBA Executive programme from 21st- 25th March, 2024.

FACULTY OF ARTS

ARABIC

Major Activities and Achievements

The Department of Arabic is one of the oldest departments in the University dating back to 1922, the year of the inception of the University of Delhi.

Publications

UGC Care Listed Journals

Mahmood, A. (2023). Qirat Fi Riwayat Umar Yazhar Fi Al Qudus Li Najeeb Keelani. *Al-Tilmeez Arabic Research Journal*, 5, 68-73.

Seminars Organized

On the occasion of G-20 summit in New Delhi a two-day National Seminar on “Indo-Saudi Relations through the Ages” was organized by the Department on 11-12 October 2023.

Seminar/Conference Presentations (National/International) by Faculty Members

Syed Hasnain Akhtar, 2024-03-05 delivered 10th Shah Waliullah Memorial Lecture in the Conference of Traditions & Cultures: Rohilkhand organised by Center of Arabic & African Studies, JNU

Syed Hasnain Akhtar, 2023-12-12 delivered Ghaziuddin Khan Lecture in the seminar titled Dilli College Ke Chand Mumtaz Asataza organised by Zakir Husain Delhi College

Mujeeb Akhtar, 2023-11-25 delivered sessions on Teaching of Arabic Language for Non Arabic Speakers in St. Stephen's College in Two-day International Seminar organised by Centre for Arabic and African Studies, JNU

Mujeeb Akhtar, 2023-11-21 delivered a talk on Kitab Auraaq-e-Pareeshan Ek Mutalah in a Two-day International Seminar on Contribution of JMI to Promotion of Arabic Language and Literature in India organised by Department of Arabic, JMI

Mujeeb Akhtar, 2023-11-04 delivered a talk on Kitab Ulama-e-Salaf Eik Mutalah in a Two-day National Seminar on Life and Works of Sadar-Yar-Jung Nawab Habibur Rahman Khan Sherwani organised by Department of Arabic, Aligarh Muslim University

Naimul Hasan, 2023-11-04 delivered a talk on Jung aur Maulana Azad ka Usloobe Negarish in a Two-day National Seminar on life and works of Sadryar Jung Nawab Habibur Rahman Khan Sherwani organised by Department of Arabic, AMU, Aligarh

Naimul Hasan, 2023-11-22 delivered a talk on Prof. Farhana Siddiqui in the view of her works in National Seminar on “Contribution of Jamia Millia Islamia to Promotion of Arabic Language and culture in India” organised by Department of Arabic, Jamia Millia Islamia

Naimul Hasan, 2024-01-16 delivered a talk on Arabic Language as a Language of technology in a National seminar titled "Arabic Language is the Language of Poetry and Arts" organised by Centre for Arabic and African Studies, School of Languages, JNU

Mohammad Akram, 2023-06-16 delivered a talk on 'Qura'n Aur Tasawur-e-Siyasat' in the National Seminar on Educational and Political Problems of Muslims organised by Maulana S. Abul Aala Maududi Research Centre Lucknow

Mohammad Akram, 2023-10-22 delivered a talk on 'Aijaz-e-Qura'n : Aba'ad-wo-Wijoooh' in the National Seminar on Aijaz-e-Qura'n organised by Idara Ulamul Qura'n, Aligarh.

Mohammad Akram, 2023-11-22 delivered a talk on 'Fannul Maqamat wa ma Ilaihi' in the National Seminar on Arabic Prose Genres through the Ages organised by CAAS, JNU.

Mohammad Akram, 2023-11-23 delivered a talk on Ustaz Mohd Surati Aur Unki Tasaneef Eik Ta'ruf in the National Seminar on Contribution of JMI to Promotion of Arabic Language and Literature in India organised by Department of Arabic, JMI.

Mohammad Akram, 2024-03-06 delivered a talk on 'Hindustani Aurat Ek Misri Sayyah Ki Nazar Mein' in the National Seminar on Arabic Travelogues to India organised by Department of Arabic MANUU, Hyderabad.

Asghar Mahmood, 2023-08-28 delivered a talk on 'Importance of Learning Arabic Language' in the One day Awareness programme seminar on "Importance of Arabic Language in Modern Era" organised by Govt. Degree College Thamamandi, University of Jammu, J & K.

Asghar Mahmood, 2023-11-21 delivered a talk on Qiraatun Fi Riwayat Araz Ul-Anbiya-li Najeeb Keelani in Two-day National Seminar on Manifestations of Arabic Literature in its various learners across the Ages and Times organised by CAAS, JNU

Asghar Mahmood, 2023-11-22 delivered a talk on Itlalatun Fi Kitab "Wamazat wa Ezaat" lil Ustaz Ziaul-Hasan Nadwi in a Two-day National Seminar on Contribution of JMI in the promotion of Arabic Language and Literature in India organised by Department of Arabic, JMI.

Placement Details: 30

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 03

Other Significant Information

On 17th October 2023 a programme was organized on “The Importance of Arabic Language in the present times” Prof. Kafeel Ahmad Qasmi, Prof. Fauzan Ahmad & Prof. M. Qutbuddin delivered lectures.

On 27th December 2023, International Arabic Day was organized, several competitions were held for the students. The programme was presided over by Prof. Chander Shekhar, Dr. Vikas Gupta, graced the occasion as Chief Guest.

On 29th January 2024, Extension Lecture was organized and delivered by Prof. Mujeebur Rahman from JNU on “Ways to develop students language skills”.

BUDDHIST STUDIES

Major Activities and Achievements

The Department of Buddhist Studies was established in 1957 as follow up to the action initiated by the Government of India on the occasion of the celebration of 2500 years of Buddhism on 24 May 1956. This department, the first of its kind in India, was established with the primary objective of conducting research at the advanced level in various subjects related to Buddhist Studies. The Department began to admit full-time research scholars from the year 1962 onwards for the degrees of Ph.D. M.Litt. Later, post-graduate Certificate and Diploma courses each of one-year duration in Pali language and Literature were introduced in the years 1967 and 1968 respectively. Likewise post-graduate Certificate and Diploma courses in Tibetan Language and Literature each of one year duration were introduced in 1968 and 1969 respectively. The Department received the status of Department of Special Assistance (DSA) in 1989 from the University Grants Commission. Apart from within India, students of as many 37 different nationalities have studied and/or done research at the Department of Buddhist Studies. A large number of the alumni of this Department hold positions of eminence in different parts of the world.

Publications

Seminars/Conferences organized by the Department

Nirja Sharma, Assistant Professor, Department of Buddhist Studies, University delivered talks on the seminars titled

Swadeshi Ki Gandhivad avdharna ka vikas evam vartman prasangikta, 07-06-2023

India-African Relations: Exploring Historical connection and Contemporary Dynamics, 07-03-2023

Jagadguru Aadi Sankaracharya- Bhasha, Sanskriti Evam Rashtriya Ekta, 21-03-2023

K. N. Tiwary, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, Department of African Studies, University of Delhi, Delhi, Indian-African Relations: Exploring New pathways and Building the Future together, 07-03-2023

K. N. Tiwary, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, Department of African Studies, University of Delhi, Delhi, Mahatma Gandhi and Gandhism, 07-06-2023

Mohan Mishra, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, University of Delhi, NEP-2020: Pedagogical Imperatives of Higher Education, 01-12-2023

Dhammadeep Wankhede, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, University of Delhi, NEP-2020: Pedagogical Imperatives of Higher Education, 01-12-2023

Rajeev Kumar, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, University of Delhi, NEP-2020: Pedagogical Imperatives of Higher Education, 01-12-2023

Nishant Kumar, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, University of Delhi, NEP-2020: Pedagogical Imperatives of Higher Education, 01-12-2023

Vishva Dutt, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, University of Delhi, NEP-2020: Pedagogical Imperatives of Higher Education, 01-12-2023

Neetu Singh, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, University of Delhi, NEP-2020: Pedagogical Imperatives of Higher Education, 01-12-2023

Neetu Singh, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, Malaviya Mission Teacher Training Centre, H.N.B., Garhwal University, Srinagar (Garhwal), Uttarakhand, NEP 2020 Orientation & Sensitization Program, 24-02-2024

Neetu Singh, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, ICPR, Buddhist Yoga, 29-01-2024

Neetu Singh, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, ICPR, Advaita Vedanta of Shankaracharya, 28-07-2023

Neetu Singh, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, ICPR, Skepticism: A Debate and Discussion, 28-08-2023

Neetu Singh, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, ICPR, Philosophical Counselling and Indian Philosophy, 27-10-2023

Neetu Singh, Assistant Professor, Department of Buddhist Studies, University of Delhi, Delhi, ICPR, Research Methodology & Indian Knowledge System, 26-09-2023

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 02

Faculty Strength

Total: 06 (Six) - (Professor – 03, Associate Professor – 01 and Assistant Professor – 02)

Other Significant Information

Received 35 crore grant by Pradhan Mantri Jan Vikas Karyakram Sponsored by Govt. of India Minority Affair.

ENGLISH

Major Activities and Achievements

The Department of English has the same year of inception as the University of Delhi, 1922. The Department offers degrees at MA, MPhil and PhD levels and oversees undergraduate teaching at the 79 Colleges which are affiliated to the University. From 1970 the Department began functioning from two campuses: the main Campus at the Arts Faculty, North Delhi and South Campus, Dhaula Kuan, South Delhi. The Department also oversees MA (English) Programme at the Non-Collegiate Women's Education Board. The Department provides intensive mentoring to its students both in and beyond the classroom in a wide variety of forums; and its calendar comprises ongoing lectures, film screenings, symposia, conferences, and colloquia on multiple themes. In the QS Ranking 2024 the Department of English, University of Delhi has been ranked between 101-150.

Honours/Distinctions

Aneja, Anil Kumar: Award for outstanding services in the field of Higher Education by Nethrodaya institution, Chennai on 23 March, 2024.

Aneja, Anil Kumar. Worked on additional charge as Director, Centre for Disability Studies, University of Delhi.

Aneja, Anil Kumar. Supported All India Confederation of the Blind in voluntary capacity as President.

Malhotra, Prerna. Appointed as Jt. Director of Centre for Hindu Studies, University of Delhi.

Publications

Research Articles

Scopus

Machado, G., & Jana, U. (2023). The city in film: Reading Dhobi Ghat and Island City as cinematic representations of Mumbai. *Journal of Urban Cultural Studies*, 10(2), 269-283.

Mondal, A., & Jana, U. (2023). Mapping the Poetics of Memory: A Critical Reading of Manoranjan Byapari's *Interrogating My Chandal Life* as Cultural Archive. *Contemporary Voice of Dalit*, 1-9.

Kumar, R. (2023). Book review: Bidyut Mohanty, *A Haunting Tragedy: Gender, Caste and Class in the 1866 Famine of Orissa*. *Sociological Bulletin*, 72(3), 349-352.

UGC

Aneja, A. K., & Shilpa, B. S. L. (2024). Reimagining Comics Visuality: The New Genre of Audio Comic Unseen. *Fortell*, 98-108.

Web of Science

Raja, I. (2023), Inessential Objects: Material Possessions in Late Life in Indian Fiction, *Journal of Aging Studies*, 67, 1-7.

Book Chapters

Jana, U. and Islam, M. (2023), Disability Life Writing in India, New York University Press (Ebook), 210-217.

Jana, U. (ed.) (2023), *Digital Culture in Humanities: Contemporary Trends*, ABS Books.

Pou, K B Veio, (ed.) (2023), *Keeper of Stories: Critical Readings of Easterine Kire's Novels*, Highlander Press.

Pou, K B Veio, (2023), Literary Traditions, *Routledge Companion to Northeast India*, ed Jelle J.P. Wouters and Tanka B. Subway, Routledge, 307-311.

Pou, K B Veio, (2023), Popular Culture, *Routledge Companion to Northeast India*, ed Jelle J.P. Wouters and Tanka B. Subway, Routledge, 370-374.

Pou, K B Veio, (2024), An Emerging Literary Tradition: An Overview of Writings in English from the Northeast, *From Canon to Covid: Transforming English Literary Studies in India*, ed. Angelie Multani et al. Routledge, 242-254.

Qadeer, H. and Rafiq, S. (2023), *Karbala: A Play* by Premchand, Sahitya Akademi.

Raja, I. (2024), More than Memories: Ageing and the Attachment to Material Objects in Three Indian Short Stories, *Cultures of Ageing and Ageism in India*, ed. Paromita Chakravarti and Kaustav Bakshi, Routledge, 145-156.

Raja, I. (2023), Nation and Ageing: Mother India's Mutable Body, *The Bloomsbury Handbook to Ageing in Contemporary Literature and Film*, ed. Sarah Falcus, Heike Hartung and Raquel Medina, Bloomsbury, 239-254.

Singh, V. K. (2024), Comparing Henry V and Yudhiṣṭhira: Politics of Kingship in *King Henry V* and the Mahabharata, *Shakespeare and the Political: Elizabethan Politics and Asian Exigencies*, ed Rita Banerjee and Yilin Chen, Bloomsbury, 98-111.

Research Projects

Aneja, Anil Kumar, Subject-specific achievements of visually impaired students studying in inclusive schools, INR 6,00,000, All India Confederation of the Blind.

Ujjwal Jana, Mapping the intellectual history of Ideas: The Place of Bhima Bhoi and Mahima Dharma in Indian social and religious Tradition, INR 2,00,000, Indian Council of Historical Research.

Aneja, Anil Kumar, Identification of Jobs for the visually impaired in key corporate sectors, INR 2,25,000, All India Confederation of the Blind.

Ujjwal Jana, Indian-European entanglements: exploring transcultural relationships through Digital Humanities, INR 74,00,000, Ministry of Education, Government of India sponsored 'Scheme for Promotion of Academic and Research Collaborations' (SPARC).

Seminars Organized

Shri Praveen Prakash Ambashta, Deputy Chief Commissioner for Persons with Disabilities, University of Delhi, Disability Engagements in English Studies at Delhi University: A Retrospect And Prospects, 13-03-2024

Seminar/Conference Presentations (National / International)

Aneja, Anil Kumar, 15-03-2024, "NEP: Philosophy and Implementation in the Context of English Studies in India", One-Day National Level Workshop on The National Education Policy (NEP) 2020: A Workshop for Educators, "Department of English, Central University of Kashmir"

Aneja, Anil Kumar, 13-03-2024, One-day Conference titled 'Disability Engagements in English Studies at Delhi University: A retrospect and prospects', "Department of English, University of Delhi."

Aneja, Anil Kumar, 08-02-2024, "Contextualizing Disability Studies & Movements in the Indian Context", "the One-Day National Conference on "Disability Studies: Nature and Scope", "Department of English, SIES College of Arts, Science and Commerce, Mumbai."

Aneja, Anil Kumar, 04-01-2024, "World Braille Day", World Braille Day, Enabling Unit of Shaheed Bhagat Singh College

Aneja, Anil Kumar,31-10-2023," Using International Norms to Lead with A Disability in Higher Education", "Global Conference on Prevention and Treatment of Visual Challenges, and Educating Children and Adults with Blindness Scientific, Educational, and Social Frontiers", Ek Kadam Aur Foundation at Shangri-La Hotel in Connaught Place, New Delhi, India"

Aneja, Anil Kumar,21-09-2023, Europe: Challenges & Expectations in 2023, "Dept. of English, Dept. of Germanic & Romance Studies and Dept. of Slavonic & Finno-Ugrian Studies"

Aneja, Anil Kumar,02-02-2024, "The Invisible Majority: Accessibility for All", Jaipur Literature Festival 2024.

Aneja, Anil Kumar,03-02-2024, "Fiction, Faction and the Spaces in Between", Jaipur Literature Festival 2024.

Aneja, Anil Kumar,03-02-2024, JLF Outreach Programme session, Jaipur Literature Festival 2024.

Dubey, Yogesh Kumar,0024-03-12, "Awadhi: A Repository of Global Challenges and Solutions", National Seminar on Bhartiya Bhasa Sammelan, Chhatrapati Shahuji Maharaj University Kanpur

Dubey, Yogesh Kumar,16-03-2024, "The Role of Culture and Language in Translation," National Seminar on Translating India: Bridging Cultures and Languages, "Rajdhani College, University of Delhi"

Kumar, Raj,16-03-2024, "Translating India: Bridging Cultures and Languages", national seminar, "Department of English, Rajdhani College, University of Delhi"

Kumar, Raj, 15-03-2024, "Indian Autobiographies in English: a Survey", annual conference, "Sahitya Akademi, New Delhi

Kumar, Raj,06-03-2024, "Dalit Writing as an Alternative Literary Historiography of India", a special talk, Department of English, Shaheed Bhagat Singh College, University of Delhi

Kumar, Raj, 29-01-2024, "The Language of Human Rights: A Perspective from Below", a national conference, Centre for Languages and Communication, S.G.T. University, Gurugram.

Kumar, Raj, 29-11-2023, "Dalit Writings as Truth Speaking to Power", a national conference, department of English, Aligarh Muslim University, Aligarh"

Kumar, Raj, 27-11-2023, "Caste in Indian Literature", Refreshers Course, Department of English, Kurukshetra University, Kurukshetra

Kumar, Raj, 22-09-2023, "How to Interpret a Literary Text?", workshop," Department of English, Koneru Lakshmaiah Education Foundation (KLEF), Guntur"

Kumar, Raj, 02-08-2023, "How to Translate a Dalit Text?", workshop on Literary and Cultural Translation: Theory and Practice, Department of English, Jadavpur University

Kumar, Raj, 13-07-2023, "The Language of Dalit Studies", Refreshers Course, Department of English, Banaras Hindu University, Banaras

Kumar, Raj, 31-05-2023, "Narrating Violence: Reading of Dalit Autobiographies", an international conference, Reva University, Bengaluru.

Kumar, Raj, 12-04-2023, "Dalits in English Literature: Narratives and Dalit Critiques", a Seminar," United Dalit Students Forum, Jawaharlal Nehru University, New Delhi".

Jana, Ujjwal, 10-05-2023, "Historiography of Ancient Indian Drama", workshop on Contemporary readings of Natyashastra and its Philosophical significance, "Lakshmibai College, University of Delhi"

Jana, Ujjwal, 24-04-2023, "Creativity and Aesthetic Reflections", workshop on CREATIVE WRITING IN THE LITERARY REALM, "Department of English and Modern European Languages, Gautam Buddha University, Noida"

Jana, Ujjwal, 15-03-2024, "Indian Literature and Intellectual traditions", annual conference, "Sahitya Akademi,"

Jana, Ujjwal, 08-09-2023, "Digital Humanities and Literary studies", Refresher Course in English, "UGC-HRDC, NEHU"

Jana, Ujjwal, 17-08-2023, "Indian knowledge traditions and NEP 2020", Refresher Course in English, "UGC-HRDC, Silver Jubilee Campus, Pondicherry University"

Jana, Ujjwal, 21-11-2023, "Indian Aesthetic traditions and Rasa Theory", Refresher Course in English, "UGC-HRDC, University of Allahabad"

Jana, Ujjwal, 02-08-2023, "Disability Literary Studies", Refresher Course in English, "UGC-HRDC, UGC-HRDC, Madurai Kamaraj University,"

Jana, Ujjwal, 09-02-2024, "Digital Humanities and future scope and challenges", Workshop on Digital Humanities, Malaviya National Institute of Technology Jaipur

Malhotra, Prerna, 09-09-2023, "Understanding Indian Womanhood through History, Culture and Other Agencies", 3-month Certificate Course on Understanding Women's Studies and Indian Feminism, "Women's Studies and Development Centre, University of Delhi."

Negi, Pooja, 28-04-2023, "The Structural Study of Kinnauri Folktraditions: An Overview, New Research in English Studies as part of the G20 Connect Programme," the Department of English Literature, The English and Foreign Languages University (EFL), Hyderabad

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 14

M.Phil : 21

Faculty Strength

34 (Thirty Four) – (Senior Professor- 04, Professor – 11, Assistant Professor – 19)

Other Significant Contributions

Annie Finch, American poet, "Women's Poetry and the Magic Meter," 25 Sept 2023

Shuchi Kapila, Department of English, Grinnell College, United States "Memory and Post-memory in Partition Studies," 9 Oct 2023.

Shalini Puri, University of Pittsburg, USA, "Hydrocolonialism, Postcoloniality, and the Anthropocene: Imagining Freshwater Justice through Caribbean Arts," 1 Dec 2023.

Sandrine Soukaï, Gustave Eiffel University, France, “Embodied Memory of Indian Indentureship: Performance of Dance, Music and Nadrons in Antillean Arts and Literatures,” 19 Feb 2024.

Preetha Mani, Associate Professor of South Asian Literatures in the Department of African, Middle Eastern and South Asian Languages and Literatures, Rutgers University, USA, “Ten Theses on the Idea of Indian Literature,” 5 April 2024.

Rita Kothari, Ashoka University, “Language and Incomplete Travels,” 29 Apr 2024.

GERMANIC AND ROMANCE STUDIES

Major Activities and Achievements

Minni Sawhney - Elected Vocal of International Hispanist Association (AIH) 2023-2025

Vijaya Venkataraman - Elected to the Executive Committee, International Association of Cervantistas (2023-2027).

Honours/Distinctions

Anshu Shekhar - Selected for Erasmus + KA 171 Teacher’s Mobility Program of European Union (Feb. 20-27, 2024, at University of Malaga, Spain).

Publications

Research Articles

Scopus

Venkataraman, V. (2023). «Andar con buen nombre por las lenguas de las gentes»: Cervantes como personaje de ficción en la literatura contemporánea. *Hipogrifo. Revista de literatura y cultura del Siglo de Oro*, 11(2), 787-798.

UGC

Vijaya V. 2024, Don Quijote de la Mancha: *Desh Kaal ki Seemaon ke Paar*, --, 74, 30-39

Book Chapters

Vijaya Venkataraman, (2024), “Inhabiting In-Between Spaces: Fractured Identities and Self-representation in Najat El Hachmi’s life writing” in *Life Writing, Representation and Identity: Global Perspectives*, India, Routledge, 9781032728896, 285

Book Translation by Maneesha Taneja, (2023), *A Life in Chains* (Translation into English of Sachindra Nath Sanyal’s *Bandi Jeevan*), India, Rupa Publications India Pvt. Ltd., ISBN 978-93-5702-563-8, 240
Rajeev Ranjan Giri (2024), *Swaraj Swapn: Hindu-Muslim Sambandhon ki kahaaniyan*, Delhi, Ananya Prakashan.

Journals Published by the Department

Minni Sawhney, (2023), Buddhism in the Oeuvre of Severo Sarduy, Arts Faculty, University of Delhi, Vol. 4(2) December 2023, Vol. 4(2) December 2023, pages 52- 60 Anil Rai (2023), Sahitya Amrit, 12, 22-24

Seminars Organized

“Bodies that matter”: Deconstructing Corporeality, 16-03-2024

Workshop on Didactics of Italian Language: Teaching and Learning, 13-03-2024

Teaching Workshop by Spanish Section, 13-10-2023

Workshop on Gender Sensitisation, 15-09-2023

Conferencia LAS MUJERES DE LA Generacion del 27 by Prof. Rosa Fernandez Urtasun, Universidad de Navarra, 21-08-2023

Seminar on Golden Age Literature in collaboration with GRISO, University of Navarra, Spain, 16-06-2023

Conference on “El periodismo como raíz de creatividad y legado de Gabriel García Márquez” in collaboration with Instituto Cervantes, 03-04-2023

Seminar/Conference Presentations (National / International)

Minni Sawhney, 05-07-2023, "Lo sagrado sin religion", ILI (Instituto Internacional de Literatura Iberoamericana), IILI (Instituto Internacional de Literatura Iberoamericana) in Athens, Greece

Minni Sawhney, 10-07-2023, "Los poemas indios de Octavio Paz", International Hispanist Association in Neuchatel, International Hispanist Association in Neuchatel, Switzerland

Minni Sawhney, 24-05-2023, "India in the works of Severo Sarduy", Latin American Studies Association in Vancouver, Latin American Studies Association in Vancouver, Canada

Vijaya Venkataraman, 07-06-2023, "Las muchas vidas de Miguel de Cervantes: Cervantear en el mundo de hoy", Cervantes global / Global Cervantes, University of Princeton and International Association of Cervantistas

Vijaya Venkataraman, 16-06-2023, "Las muchas vidas de Miguel de Cervantes: Cervantear en el mundo de Hoy", One Day Seminar on Golden Age Literature, GRS & GRISO, University of Navarra

Vijaya Venkataraman, 28-07-2023, "Historias fingidas/ historias verdaderas: Las muchas vidas de Miguel de Cervantes", Lecture Series: Tribuna de Hispanistas indios, Instituto Cervantes, New Delhi

Vijaya Venkataraman, 08-02-2024, "Movimiento de textos - movimiento de ideas: traducciones del español al hindi", Translating from Foreign to Indian Languages and Vice-Versa - Challenges and Implications, IGNOU, New Delhi

Vijaya Venkataraman, 21-02-2024, "Linguistic and Cultural Diversity", Cross-Cultural Interactions and Languages: International Mother Language Day, Sri Venkateswara College, Delhi University

Vijaya Venkataraman, 24-02-2024, "La traducción como intercambio cultural: experiencias de traducir del español al hindi", "VII Ibero-American Seminar: “Relaciones actuales entre el bengalí, el hindi y el español: un nuevo impulso", Indítex Cátedra, University of Dhaka

Vijaya Venkataraman, 08-03-2024, "Escritura y Feminidad en la India", Instituto Cervantes, New Delhi

Vijaya Venkataraman, 14-03-2024, "Trapped, Tortured and Effaced Bodies in Ana María Shua's Novels", "Bodies that matter": Deconstructing Corporeality, GRS

Maneesha Taneja, 07-06-2023, "Quijote bajo el cielo indio" (Quijote under the Indian skies)", X CINDAC Conference 'Cervantes global / Global Cervantes, Princeton University

Maneesha Taneja, 11-12-2023, "Lecture series on the Idea of India", Science and Liberal Arts Programme, National Institute of Design, Ahmedabad

Maneesha Taneja, 09-02-2024, "Translation Workshop", Conducted a Translation Workshop, IGNOU

Akhil iu Rimai, 13-10-2023, "Cultural and Socio-Political Identity of the Nagas in the Works of Easterine Kire and Temsula Ao: A Multicultural Literature", International Conference Empowering Global Multilingualism through Art, Culture & Films, Amity School of Foreign Languages Amity University Kolkata

Surabhi Rana, 05-01-2024, "Fiche Pédagogique", Teachers' Training Workshop for 2024, Langers International Private Limited

National/International MoUs Signed

University of Montpellier-III

University of Wuppertal, Germany

Freie University, Berlin, Germany

Potsdam University, Germany

Bielefeld University, Germany

Placement Details : 60

Extension and Outreach Activities

Francophone day: Confluence on 19 March 2024

Talk on the Poetry Collection "The Alphabets of Latin America: A Carnival of Poems" by Abhay K (Poet-diplomat)

Cultural program related to spring traditions in Romania on Friday, 1st March 2024, from 10:30 am

Lecture titled "The Real Game of Thrones? When Fantasy Goes Medieval" by Prof. (Dr.) Racha Kirosasian from the University of Freiburg, Germany, on 29.02.2024 from 3:00 pm - 5:00 pm

Lecture on "Words that contact: Tracing the Literary Thread Between Italy and India via Translation" by Prof. Stefania Cavaliere on 9th February 2024 at 1:30 pm

Second session of the GRS Book Club - 13th February 2024 (Tuesday) from 2:30 onwards in room number 32

Lecture on "Words that contact: Tracing the Literary Thread between Italy and India via Translation" by Prof. Stefania Cavaliere on 9th February 2024 at 1:30 pm

Ibero American Voices (IBAV)-2023: 7 December 2023 at 11:00 am

Lecture titled "Foreign Language learning and Employability," by Dr Julia Augart, University of Wuppertal.30 Nov.2023, Thursday 10:30 am

The Presentation of Hindi Translation of the book Viajemos a Historias Eternas de El Salvador by Salvadorean author Federico Navarrete on 15th November 2023 at 11:00 am

European Writers: Challenges & Expectations in 2023 in Collaboration with the Embassies of Spain, Portugal, Hungary, Slovenia, Cyprus, Czech Republic on 21 September 2023.

World Portuguese Language Day—5 May 2023: 2 May 2023, in collaboration with the Embassy of Portugal.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 01

Faculty Strength

34 (Thirty Four) – (Senior Professor- 04, Professor – 11, Assistant Professor – 19)

HINDI

Major Activities and Achievements

The Department of Hindi of the University of Delhi is one of the country's leading departments. It creates, innovates, sustains, and promotes high standards of academic excellence.

Honours/Distinctions

Faculty

Sneh Lata Negi: 01-Mahila Sahityakar Samman (state Level)

Anil Rai: 'Awadh Sanskriti Samman' 2023 'Awadh Sanskriti Utkarsh Samiti' Gonda, UP.

Publications

Research Articles

Sharma, K. (2024). Tulsi ke Ram Jan Janke Ram, *Prabhat Prakashan*, 141-143, 286.

Rai, A. (2023). MrigawatimeinKutubanke Darshnik Vichar. *Madhumati*, 14-20, 20(3&4).

Rai, A. (2023). Rashtra Bhasha aur Kaka Kalelkar. *Sahitya Amrit*, 12, 22-24.

Rai, A. (2023). Aaj Ka Samay Aur Tulasidas. *Madhumati*, 7, 73-80.

Rai, A. (2023). Bhramargeet Parampara mein Surdas. *Gaveshna*, 71-78, 133.

- Rai, A. (2023). MrigawatimeinPremdarshan. *Madhumati*, 9, 93-97.
- Rai, A. (2024). Tulsidas ki Kavya Drishti. *Madhumati*, 1, 75-80.
- Negi, S. L. (2023). Sanskriti ka Sankat RagatmakBauddhikata aur JecintaKerketta ki Kavitayen. *The Perspective*, 3(4), 95-102
- Negi, S. L. (2023). Tanya Bheel Bharat ka Robin Hood. *Sahitya Megh*, 3, 51-53.
- Negi, S. L. (2023). Bharateey Bhasha Chintan Aur matribhashaon ka Mahatva. *Bhasha*, 13, 1379-1385.
- Negi, S. L. (2024). RashtreeyAndolan men Adivasi streeyon ki Bhumika. *Sahitya Megh*, 4, 20-23
- Negi, S. L. (2024). Shiv Prasad Singh ki Kahaniyon me Gramin Jivan ki Visangatiyan. *Mukt Shabd*, 13, 314-318.
- Puri, A. K. (2024). Rajdharm Ke Alok Men Ramrajya Aur Ramcharitmanas. *Prabhat Prakashan*, 286, 245-250.
- Kumari, A. (2023). MahilaonkeKanuni, Dharmik Evam Samajik Adhikar: Ek Padtaal. *Anang Prakashan*, 1, 43-49
- Kumari, A. (2023). Media ki Bhasha ka Sanskritik Prabhav. *NKS Prakashan*, 1, 84-87
- Kumari, A. (2023). Kinnar Shabd ka SahityikParichaya. *Sankalp Prakashan*, 1, 34-38
- Kumari, A. (2023). Panchtantra ki Baal Kahaniyon Mein Naitik Vikas ki Avdharna. *Jyoti Chandra Publication*, 3, 50-55.
- Kumari, A. (2023). Sahitya Evam Samajik Parivartan. *Shodh Prakashan*, 1, 146-149.
- Kumari, A. (2024). LokjeevanmeinUpyogi Shri Ramcharitmanas ki Choupaiyan. *J. T. S. Publication*, 1, 332-345.
- Verma, S. K. (2023). Bhagawaticharan Verma ke Yonyason me AbhivyaktPariwarikMoolya. *Global Thought, Dolphin Printographics*, 29, 282.
- Verma, S. K. (2023). Neeldevi: Naari aur Aitihasic Drishti. *Vaak Sudha, Swami Mudrak*, 37, 209.
- Verma, S. K. (2023). Hindi yatra sahitya me ubharateaitihasicayam. *Vaak Sudha, Swami Mudrak*, 38, 165.
- Verma, S. K. (2023). Rahul Sankrityayanke Yatra Sahitya me Ubharate Arthik Ayam. *Global Thought, Dolphin Printographics*, 30, 200
- Meena, T. C. (2024). Kissa Democracy. *Sammelan Patrika*, 103 -107
- Meena, T. C. (2023). Literary personality and creative world of Mannu Bhandari. *Sampreshan*, 101-106
- Tiwari, V. (2023). Nav-udarPunjivad ka Black Hole aur Sapno ki Duniya ka Yatharth. *Kathadesh*, 91-93
- Tiwari, V. (2023). Punjab Mein Bhuswamitva, Jatiye Varchasv aur Dalit Pripekshya. *Tadbhav*, 24-44
- Tiwari, V. (2023). Hindi ke Hit ka Abhiman veh: Hindi Navjagran aur Mahaveer Prasad Dwivedi ka Yug (paricharcha). *Vagarth*, 99-104.
- Tiwari, V. (2023). Nafrat ki Mohabbat ka Paigam: Kabir, Meera aur Ishq, *Anviti*, 3-9.
- Tiwari, V. (2023). Ashok Vajpayi ki Alochan Drishti. *Sapeksh*, 528-544.
- Singh, P. K. (2023). Hindi Kavya Bhasha ke Vikaas Mein Pant ji ka Yogdaan. *The Eternity*, 14, 466.

Singh, P. K. (2023). Alochna ki Zaroorat, *Manviki*, 15, 514

Singh, P. K. (2023). Hindi Bhasha Ka Udbhav Aur Vikas: Hindi Urdu Vivad, *Research today*, 14, 527.

Book Chapters

Ajeet Kumar Puri (2023), Swatantrata Sangram, Samajwad Aur Shriramvriksh Benipuri, Delhi, Hans Prakashan, 264

Rajeev Ranjan Giri (2024), Swaraj Swapn: Hindu-Muslim Sambandhon ki kahaaniyan, Delhi, Ananya Prakashan.

Rajeev Ranjan Giri, (2024), Swaraj Swapn: Kisan Jeevan ki Kahaniyan, Ananya Prakashan.

Rajeev Ranjan Giri, (2024), Swaraj Swapn: Stree Sawalon ki Kahaaniyan, Delhi, Ananya Prakashan.

Rajeev Ranjan Giri (2024), Prem Manjoosha, Delhi, Ananya Prakashan.

Rajeev Ranjan Giri (2024), Swaraj Swapn: Swadheenta aandolan ki Kahaniyan, Delhi, Ananya Prakashan.

Rajeev Ranjan Giri (2023), Rashtra, Jeevan aur Jeevani (In the Book Amrit Rai: Srijan aur Mulyankan, Prayagraj, Rudraditya Prakashan.

Rajeev Ranjan Giri (2024), Rajbhasha Aandolan mein Deendayal Jee ki Bhoomika, (In the Book-Deendayal Upadhyay: Chintan ke vividh Aayam), New Delhi, V L Media Solutions.

Rajeev Ranjan Giri (2024), Gandhi ji ki Shaktisrot thin Kasturba, Delhi, Yugvarta Magazine.

Shambhu Nath Mishra (2023), Hindi Bhasha ke Vikas men Apni Bhasha aur Sahitya ke Jariye Arun Hota ka Sahityik awadan, Book- Arun Hota: Ek Shinaksht, Mumbai, Sulochna Das, Pralek Prakashan.

Shambhu Nath Mishra, (2023), Baat Bolegi: Samay ke Sawalon par Bauddhik Vimarsh, Book – Hamko to Soi Lakhai, Durga Prasad Gupt, Anugya Books.

Tikam Chand Meena, Closed Fist: A Tale of Love and Family Disintegration (Book: Novel literature of expatriate writer Hansa Deep), NA, Sarva Bhasha Trust.

Vinod Tiwari, (2024), Raag Darbari (Ed), Noida, Setu Prakashan Pvt. Ltd.

Vinod Tiwari, (2023), Chhyavadi Kavya Mein Mithkiye Pratiko Ki Punarrachna: Chhayavad Sau Saal Baad, Prayagraj, Lok Bharti Prakashan.

Vinod Tiwari, (2023), Sapno Ki Duniya Ka Yatharth, Sah-Mat, Bhopal, Eyesekt publication.

Vinod Tiwari, (NA), Pesanth Saal ki Raspriya aur Sau Saal ke Renu, Punarsarjan mein Renu, Gaziabad, Pustaknama Prakashan, 34-46

Journals Published by the Department

Anil Rai (2023), Chintan -Srijan, 20.3-20.4, 14-20

Anil Rai (2023), Sahitya Amrit, 12, 22-24

Anil Rai (2023), Madhumati, 7, 73-80.

Anil Rai (2023), Gaveshna - khs, 133, 71-78.

Anil Rai (2023), Madhumati, 1, 75-80.

Anil Rai (2023), Madhumati, 9, 93-97.

Sneh Lata Negi (2022 to 2023), The Perspective, 3-4, 95-102

Sneh Lata Negi (2023), Sahitya Megh, 1, 3, 51-53

Sneh Lata Negi (2024), Mukta Shabd Journal, 1, 13, 1379-1385.

Sneh Lata Negi (2024), Sahitya Megh, 1, 4, 20-23.

Sneh Lata Negi (2024), Mukta Shabd, 3, 13, 314-318.

Ajeet Kumar Puri (2024), Rajdharm Ke Alok Men Ramrajya Aur Ramcharitmanas, Prabhat Prakashan, 286, 245-250

Asha Kumari, (2022-2023), Vision Research Review, Jyoti Chandra Publication, XXIV, III, 50-55

Shambhu Nath Mishra (2023), Banaas Jan, 64, 198-203

Pradeep Kumar Singh (2023), The Eternity, XIV, 466

Pradeep Kumar Singh (2023), Manviki, XV, 514

Pradeep Kumar Singh (2023), Research Today, XIV, 527

Research Projects

Manju Mukul kamble, ICSSR, Sahitya Mein Dalit Hastekshep Ke Nirman Aur Vikas Mein Anuvaad Ki Bhumika Ka Samaj Bhasha Vegyanik Adhyan, 10 Lakh

Seminars Organized

Anil Rai, Associate Editor at Dainik Jagran, South Campus, New Delhi, Hindi Film Mein Bhartiyata', 27-02-2024

Dr. Ajeet Kumar Puri, Assistant Professor, Ph D, Department of Hindi, BHU, Swaraj, Swadharm Ke Sanraksharan Ki Parmpara: Swami Dayanand Saraswati Ka Pradeya (Vishesh Sandharbh Hindi Bhasha Aur Sahitya), 02-06-2023

Dr. Rajeev Ranjan Giri, Assistant Professor, Ph D, IGNC, New Delhi, Pandulipiyan Ki Anveshan – Kathayen: Prabhav evam Arthavatta, 27-06-2023

Dr. Rajeev Ranjan Giri, Assistant Professor, Ph D, All India Radio, New Delhi, Hindi: Rashtra Bhasha se Raj Bhasha, 19-03-2024\

Dr. Sunil Kumar Verma, Assistant Professor, Ph D, Satyawati college, Delhi University, Viksit Bharat Abhiyan aur samajik uthhan hetu kiye ja rahe Sarkari prayas, 20-02-2024

Seminar/Conference Presentations (National / International)

Kumud Sharma presented a paper titled “Past-Independence Indian Literature” at a seminar organised by the Sahitya Akademi, Delhi on Mar 14, 2024.

Kumud Sharma presented a paper titled “Lokpriya Chetna mein Ram” at a seminar organised by the Sahitya Akademi, Delhi, on 15 March 2024.

Kumud Sharma presented a paper titled “Devyang Lekhan” at a seminar organized by the Sahitya Akademi, Delhi on March 16, 2024.

Sneh Lata Negi presented a paper at a seminar titled “Hindi sahitya aur Adivasi stree Asmita ke sawal”, organised by JDMC, University of Delhi, on Aug 10, 2023.

Sneh Lata Negi presented a paper at a seminar titled “Samajshastreeya aitihasik evam anya shodhparak alekh” at a seminar titled “Adivasi sahitya sanghoshthee”, organised by Dr. Ramdayal Munda, janjateey kalyan shodh sansthan, Ranchi, on Apr 24, 2023.

Sneh Lata Negi presented a paper “Hindi karyaashala” at a seminar organised by DRDO, Ministry of Defence, on Sept 19, 2023.

Sneh Lata Negi presented a paper “Hindi karyaashala” at a seminar organised by Power Corporation, Jhatikra Substation, on Sept 29, 2023.

Sneh Lata Negi presented a paper, “Hindi karyaashala” at a seminar organised by DRDO, Timarpur, on Sept 13, 2023.

Sneh Lata Negi presented a paper titled “Chukshim” at a seminar, “First Tribal Literature cum Excursion Fest” organised by District Administration, Kinnaur, on Oct 22, 2023.

Sneh Lata Negi presented a paper titled “Swantantrata Andolan me Adivasi samaj ki Bhumika” at a seminar organized by Sri Venkateswara College, University of Delhi, on Nov 24, 2023.

Sneh Lata Negi presented a paper titled “Tekchand ki kahani ‘Atmbhakshan’” at an online webinar organized by Hans Magazine, on March 1, 2024.

Sneh Lata Negi presented a paper titled “Rajbhasha karynvayan Samiti ke tatvadhan me karyaashala” at a seminar organized by Satyawati College (Evening), DU, on Mar 13, 2024.

Sneh Lata Negi presented a paper “Hindi karyaashala” at a seminar organised by Power Grid, Gaav – Daboda, Bahadurgarh, on Mar 16, 2024.

Anil Rai presented a paper titled, “Rajbhasha Hindi Prashikshan” at FDP organised by Kalindi College, University of Delhi, on Jun 22, 2023.

Anil Rai presented a paper titled, ‘Bhartiya gyan Parampara mein Sant kaviyon ka Yogdaan’ at a seminar organised by Shyam Lal College, University of Delhi, on Jul 6, 2023.

Anil Rai presented a paper at a seminar, “Azadi ka Amrit Mahotsav aur Hindi Sahitya” organised by ARSD College, University of Delhi, on Aug 9, 2023.

Anil Rai presented a paper titled, “Awadhi Bhasha Aur Tulsidas” at a seminar organised by Awadh Utkarsh Samiti, UP, on Aug 23, 2023.

Anil Rai presented a paper at a seminar " Rajbhasha Prakoshth” organised by JNU, New Delhi, on Sept 27, 2023.

Gangadhar Sheshrao Chate presented a paper titled, “Sahitya aur Sinema ke paanch pakar” at a seminar organised by Central Hindi Directorate, New Delhi & Sant Gonsalo Garsiya College, Vasai (Maharashtra), Feb 2, 2024.

Manju Mukul Kamble presented a paper titled, “Dr. Bhimrao Ambedkar's journalism in the present context” at a seminar organised by Dr. Ambedkar International Centre, New Delhi, on May 30, 2023.

Gopeshwer Dutt Pandey delivered a speech on International Mother Tongue Day at Law Department, Gautam Budhha University, Greater Noida, on Feb 21, 2024.

Om Prakash presented a paper titled "Different formats of government correspondence and Hindi e-tools" at a Hindi Workshop organized by University of Delhi, Delhi, on Sept 11, 2023.

Om Prakash presented a paper titled, "Hindi e-tools (with special reference to memorization)" at a Hindi Workshop organized by Warehousing Development and Regulatory Authority, Delhi, Sept 27, 2023.

Om Prakash presented a paper titled, "Application of Hindi E-Tools" at Hindi Workshop organized by Acharya Narendra Dev College, University of Delhi, on Dec 1, 2023.

Om Prakash presented a paper titled, "Development of Computer Skills – Introduction and Practice of Memorized Translation Tools" at a seminar organised by Central Hindi Training Institute, Ministry of Home Affairs, Department of Official Language, on Dec 5, 2023.

Om Prakash presented a paper titled, "Language Comprehension and Hindi Applications (E-Tools)" at a seminar organised by Central Silk Board, Ministry of Textiles, Government of India, on Dec 26, 2023.

Om Prakash presented a paper titled, "Language Understanding and Application of Official Language" at Hindi Workshop organised by Warehousing Development and Regulatory Authority, Delhi, on Dec 27, 2023.

Om Prakash presented a paper titled, "Modern English expressions and problems of their translation" at a seminar organised by Central Hindi Training Institute, Ministry of Home Affairs, Department of Official Language, on Jan 8, 2024.

Om Prakash presented a paper titled, "Role and Challenges of Official Language in Government Office" at a seminar organised by Delhi University, Delhi, on Jan 10, 2024.

Om Prakash presented a paper at a seminar "Development of Computer Skills – Introduction and Practice of Memorized Translation Tools" organised by Central Hindi Training Institute, Ministry of Home Affairs, Department of Official Language, on Jan 29, 2024.

Om Prakash presented a paper at 'Non-Hindi Speaker Hindi Navlekhak Shivir' organised by Central Hindi Directorate, Ministry of Education, Government of India at SRM Institute of Science and Technology, Modinagar, Ghaziabad, on Feb 26, 2024.

Om Prakash presented a paper titled, "Application of Hindi E-tools in Use of Official Language Hindi" at a Hindi Workshop organised by GAIL (India) Limited, Waghodia District - Vadodara, Gujarat, on Mar 6, 2024.

Om Prakash presented a paper titled, "Practical Training of Memorized 2.0 Translation Tool" at Official Language Training Programme organised by Indian Council of Forestry Research and Education, Ministry of Environment, Forest and Climate Change, Government of India, on Mar 21, 2024.

Om Prakash presented a paper titled, "Different Formats of Government Correspondence and Hindi Noting Drafting" at a seminar organised by Delhi University, Delhi, on Mar 22, 2024.

Om Prakash presented a paper titled, "Introduction and Practice of Hindi E-Tools in Wider Use of Official Language" at a Hindi Workshop organised by GAIL (India) Limited, Waghodia District - Vadodara, Gujarat, Mar 27, 2024.

Om Prakash presented a paper titled, "Different formats of government correspondence and Hindi e-tools" at a Hindi Workshop organised by University of Delhi, Delhi, on Sept 11, 2023

Om Prakash presented a paper titled, "Hindi e-tools (with special reference to memorization)" at a Hindi Workshop organised by Warehousing Development and Regulatory Authority, Delhi, on Sept 27, 2023.

Om Prakash presented a paper titled, "Application of Hindi E-Tools" at a Hindi Workshop organised by Acharya Narendra Dev College, University of Delhi, 2023-12-01, "Development of Computer Skills – Introduction and Practice of Memorized Translation Tools" at the seminar organised by Central Hindi Training Institute, Ministry of Home Affairs, Department of Official Language, on Dec 05, 2023.

Om Prakash presented a paper titled, "Language Comprehension and Hindi Applications (E-Tools)" at a seminar organised by Central Silk Board, Ministry of Textiles, Government of India, Dec 26, 2023.

Om Prakash presented a paper titled, "Language Understanding and Application of Official Language" at a Hindi Workshop organised by Warehousing Development and Regulatory Authority, Delhi, on Dec 27, 2023.

Om Prakash presented a paper titled, "Modern English expressions and problems of their translation" at a seminar organised by Central Hindi Training Institute, Ministry of Home Affairs, Department of Official Language, on Jan 8, 2024.

Om Prakash presented a paper titled, "Role and Challenges of Official Language in Government Office" at a seminar organised by Delhi University, Delhi, on Jan 10, 2024.

Om Prakash presented a paper titled, "Development of Computer Skills – Introduction and Practice of Memorized Translation Tools" at a seminar organised by Central Hindi Training Institute, Ministry of Home Affairs, Department of Official Language, on Jan 29, 2024

Om Prakash presented a paper titled, 'Non-Hindi Speaker Hindi Navlekhak Shivir' at a seminar organised by Central Hindi Directorate, Ministry of Education, Government of India at SRM Institute of Science and Technology, Modinagar, Ghaziabad, on Feb 26, 2024.

Om Prakash presented a paper titled, "Application of Hindi E-tools in Use of Official Language Hindi" at a Hindi Workshop organised by GAIL (India) Limited, Waghodia District - Vadodara, Gujarat, on Mar 06, 2024.

Om Prakash presented a paper titled, "Practical Training of Memorized 2.0 Translation Tool" at the Official Language Training Programme organised by Indian Council of Forestry Research and Education, Ministry of Environment, Forest and Climate Change, Government of India, on Mar 21, 2024.

Om Prakash presented a paper titled, "Different Formats of Government Correspondence and Hindi Noting Drafting" at a seminar organised by Delhi University, Delhi, on Mar 22, 2024.

Om Prakash presented a paper titled, "Introduction and Practice of Hindi E-Tools in Wider Use of Official Language" at a Hindi Workshop organised by GAIL (India) Limited, Waghodia District - Vadodara, Gujarat, on Mar 27, 2024.

Rajeev Ranjan Giri presented a paper titled, "Impact of Gandhian Literature upon the Present Indian Life" at a seminar organised by Gujarat Sahitya Akademi, Gandhi Nagar, on Mar 02, 2024.

Rajeev Ranjan Giri presented a paper titled, "Nayak, Jeewan aur Punarrachana" at the seminar "Matri Bhashaon mein Abhivyakt Bhasha, Sahitya evam Sanskriti ke vividh Aayam" organised by J.N.U. & ICSSR, Delhi, on Feb 21, 2024.

Rishi Kesh Singh presented a paper titled, "Mahila Arthik Sashkti aur Bharat" at a seminar organised by joint collaboration of Delhi University, National Commission for Women and NCWEB, on Nov 02, 2023.

Rishi Kesh Singh presented a paper titled, "Lok-Nirpeksha Krishna Bhakti Kavya aur Meerabai" at a seminar organised by joint collaboration of ICSSR and Nehru Gram Bharati Deemed University, on Mar 04, 2024.

Shambhu Nath Mishra presented a paper titled, "Aacharya Hajari Prasad Dwivedi ke Upanyason par Sanskrit Vangmaya ka Prabhav" at a seminar organised by National Sanskrit University, Bhopal Campus, on Feb 22, 2024.

Shambhu Nath Mishra presented a paper titled, "Asamiya Sahitya men Rashtreeya Bodh" at a seminar organised by Tezpur University, Tezpur in Collaboration with Kendriya Hindi Sansthan, on Mar 11, 2024

Suman Vishwakarma presented a paper titled, "Aadikalin siddh sahitya ka vinyas evam Swaroop" at a National seminar in Varanasi, on Jan 14, 2023.

Suman Vishwakarma presented a paper titled, "Vartaman pariprekshya me Kabir ki prasangikta" at a National seminar organised by Arya mahila P.G college, Varanasi, on Dec 19, 2023.

Suman Vishwakarma presented a paper titled, "Meera ki Prasangikta" at a National seminar organised by Nehru gram bharti manit vishwavidyalaya. Prayagraj, on Mar 04, 2023.

Suman Vishwakarma presented a paper titled, "Bhojpuri navjagran aur bhikhari thakur sutradhar ke vishesh sandarbh me" at an International seminar organised by JNU, Delhi, on Feb 21, 2023.

Sunil Kumar Verma presented a paper titled, "Sanskritik Chintan ke vividh ayam aur bhule bisare chitra" at a National seminar organised by Chaudhary mahadev Prasad mahavidyalay, prayagraj, UP, on Feb 28, 2024.

Sunil Kumar Verma presented a paper titled, "Hindi Tatha anya Bharatiya bhashaao ka antah sambandh" at an International seminar organised by kavyitri bahinabai Chaudhary Uttar Maharashtra vishvvidyalay, Jalgaon, Maharashtra, on Mar 19, 2023.

Sunil Kumar Verma presented a paper titled, "Ramcharitmanas me abhivyakt Ram ka vyaktitv" at an International seminar organised by Aditi Mahavidyalay, Delhi University, on Jan 19, 2024.

Teekam Chand Meena presented a paper titled, "Pedagogical Imperatives of Higher Education" at Faculty Induction Programme NEP 2020 organised by University of Delhi, Delhi, on Dec 01, 2023.

Teekam Chand Meena presented a paper titled, "Ministry of Education Pandit Madan Mohan Malaviya National Mission on teachers and teaching" at Teaching Learning Centre Ramanujan College, University of Delhi, on Jul 20, 2023.

Students under Exchange Programme : Two (02)

Extension and Outreach Activities

Ajeet Kumar Puri: Discussion and guidance with researchers on various topics in making research outlines.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 25

Faculty Strength

34 (Thirty Four) – (Senior Professor- 04, Professor – 11, Assistant Professor – 19)

Other Significant Information

Ajeet Kumar Puri:

Research Guidance- One PhD Awarded - Dec 2023, BHU

Gangadhar Sheshrao Chate:

Participated in the Hinditar bhashi Hindi Navlekhak shibir as a subject expert Organised by Central Hindi Directorate, New Delhi & Sant Ann's College for Women, Hyderabad, dated from 18.01.2024 to 22.01.2024.

Delivered a Lecture on the topic of "Indian Knowledge system" at SNTD College for Women, Pune, dated 05.02.2024.

Participation in the Aashubhashan Pratiyogita as a judge Organised by Central Hindi Directorate, New Delhi & Ramanujan College, Delhi, dated 01.03.2024.

Participation in the Vad vivid Pratiyogita as a judge Organised by Central Hindi Directorate, New Delhi, dated 20.08.2023.

Suman Vishwakarma:

FIP 'Pedagogical Imperatives for Creating Quality Learning Environment for All', 1-8 December 2023, Delhi University.

LIBRARY AND INFORMATION SCIENCE

Major Activities and Achievements

The Department of Library and Information Science instituted in 1946, is organized in the Faculty of Arts with the efforts of (late) Dr. S. R. Ranganathan, Prof. S. Dasgupta, and Sir Maurice Gwyer. For the first time in the country, a Library Science Department was constituted on par with other teaching departments at this University and recognized as an Associated Project of UNESCO. For a long time, this was the only Department in the country which, in addition to the B.L.I.Sc., degree, was providing education and research facilities at higher levels leading to the MLISc, MPhil, and PhD degrees.

The department ever since its inception continues to play its role of leadership in Library and Information Science education with the changing and complex needs of libraries and documentation centers in the country. The Department took concrete steps to introduce new areas of study in Information Science and Management, such as 'Computer and its Application in Libraries,' Information Storage and Retrieval,' and 'Library Systems Analysis & Statistical Methods' in its curriculum. The department revised its syllabi in

the year 2004 both in BLISc & MLISc Programmes and further revised it in the year 2009 with more emphasis on Information and Communication Technology applications in Libraries in both BLISc. and MLISc. Programmes in each semester. The Department is the first to introduce a special paper on 'Information Literacy Applications in LIS' and exclusive paper on Marketing of LIS Products and Services and Management Consultancy' in MLISc Programme.

The Department is adequately equipped with state-of-the-art ICT infrastructure for students not only for classroom teaching but also for hands-on practicals. It is providing free Wi-Fi connectivity and email facilities for all the bonafide students of the Department. The Department provides facilities for Library, Hostel facilities for outside students, Medical facilities, Freeship and scholarships for meritorious students. Every year the Department organizes visits to reputed Libraries/Documentation Centres in Delhi and outside Delhi in which participation by BLISc students shall be compulsory.

Honours/Distinctions

Prof. M. Madhusudhan

2023: Dr..P.K.Jaiswal Award by LIS Today (India).

2023: Outstanding Research Excellence Award by SV Subharti University, Meerut & Society for Information Research & Studies, New Delhi (India).

2023: Best Paper Award by National Conference on "Digital Transformation: Emerging Trends in Libraries (SUSU-NCDL-2023)", SV Subharti University, Meerut (UP).

2023: Distinguished LIS Teacher Award by Association of Indian Law Libraries, ICDT 2023.

2023: Outstanding Academic Excellence Award by Social Development Federation, Dayalbagh, Agra (India).

Publications

Scopus

Himanti and Manish Kumar , 2023 , Data Mining to find out the patterns in the data of circulation section log of July, 2022 of Jamia Millia Islamia University library using python"

Sandeep Sharma and Manish Kumar, 2023 , Awareness and Use of Anti-Plagiarism Methods by faculty Members and Research Scholars of Select Central Universities of Uttar Pradesh, India.

Parbati Pandey and Madhusudhan, Margam , 2024 , Bridging the Gap: Assessing Web 2.0 Technology Adoption in Libraries Through Systematic Review.

Kunika Jangwal, Madhusudhan, Margam and Shahil Soni , 2024 , Beyond the Pages: Exploring Web 2.0 Proficiencies in LIS Professionals: A PRISMA-Based Literature Review ,82-101.

Parbati Pandey and Madhusudhan, Margam , 2023 , Innovative Horizons: A Systematic Review of Emerging Technologies Transforming Library Services, 16.2(2023): , 119–134.

Parbati Pandey and Madhusudhan, Margam , 2023 , Guardians of the Past: Safeguarding a Nation's Heritage through Manuscripts and Rare Collections ,7960 (2023) , 1-12

Parbati Pandey, Madhusudhan, Margam, and B P Singh , 2023 , Quantitative Research Approach and its Applications in Library and Information Science Research. ,2.1 (2023) , 77-90

Margam Madhusudhan and Shahil Soni , 2024 , A Systematic Review of Application of Social Media in Libraries. , 44.1(2024) , 45-49.

Anuradha Maurya and Margam Madhusudhan , 2023 , Research Data Management Services in the Indian Institute of Technology Libraries". ,10.3 (2023) , NA

Parbati Pandey and Margam Madhusudhan , 2023 , Information and Communication Technologies Influence on Librarian's Skills in Nepal (Conferred Dr. P.K.Jaiswal Award 2023). , 9.1 (2023) , 1-16

Parbati Pandey and Margam Madhusudhan , 2023 , Continuing Professional Development of LIS Professionals Working in Select University Libraries in Nepal ,38.2 (2023) , 1-13

Khatri, D. & Walia, P.K. , 2023 , Changing Landscape of LIS Education and Research , pp. 72-88

Web Science

HIMANTI AND MANISH KUMAR, 2023 , Data Mining to find out the patterns in the data of circulation section log of July, 2022 of Jamia Millia Islamia University library using python"

SANDEEP SHARMA AND MANISH KUMAR , 2023 , Awareness and Use of Anti-Plagiarism Methods by faculty Members and Research Scholars of Select Central Universities of Uttar Pradesh, India.

Parbati Pandey and Madhusudhan, Margam , 2024 , Bridging the Gap: Assessing Web 2.0 Technology Adoption in Libraries Through Systematic Review , 24-44

Kunika Jangwal,Madhusudhan, Margam and Shahil Soni , 2024 , Beyond the Pages: Exploring Web 2.0 Proficiencies in LIS Professionals: A PRISMA-Based Literature Review , 82-101

Parbati Pandey and Madhusudhan, Margam , 2023 , Innovative Horizons: A Systematic Review of Emerging Technologies Transforming Library Services , 16.2(2023): , 119–134.

Parbati Pandey and Madhusudhan, Margam , 2023 , Guardians of the Past: Safeguarding a Nation's Heritage through Manuscripts and Rare Collections , 7960 (2023) , 1-12

Parbati Pandey, Madhusudhan, Margam, and B P Singh , 2023 , Quantitative Research Approach and its Applications in Library and Information Science Research. , 2.1 (2023) , 77-90

Margam Madhusudhan and Shahil Soni , 2024 , A Systematic Review of Application of Social Media in Libraries. , 44.1(2024) , 45-49.

Anuradha Maurya and Margam Madhusudhan , 2023 , Research Data Management Services in the Indian Institute of Technology Libraries". , 10.3 (2023) , NA

Parbati Pandey and Margam Madhusudhan , 2023 , Information and Communication Technologies Influence on Librarian's Skills in Nepal (Conferred Dr. P.K.Jaiswal Award 2023). , 9.1 (2023) , 1-16

Parbati Pandey and Margam Madhusudhan , 2023 , Continuing Professional Development of LIS Professionals Working in Select University Libraries in Nepal , 38.2 (2023) , 1-13

Khatri, D. & Walia, P.K. , 2023 , Changing Landscape of LIS Education and Research , -- , , pp. 72-88

UGC

Sr. Prof. R. K. Bhatt & Garima Gaur , 2024 , “Fostering Sustainability through Innovative Social Media Marketing: Perspectives from University Libraries in Delhi.

Sr. Prof. R. K. Bhatt & Priti Sharma , 2023 , “User Awareness about Marketing of Library Products and Services: A Study of University College of Medical Sciences and Vallabbhai Patel Chest Institute, University of Delhi, Delhi.

Books/Chapter in Books

Narender Kumar, Bhatt, RK and Lalita , (2024) , Delhi Libraries , Delhi , Narender Publishing House , 978-93-56519-47-3.

Journal(s) Published by the Department

Gupta, S. & Walia, P. K., ,(2023) ,Library Philosophy and Practice (e-journal). ,7882.

Nagar, B. & Walia, P.K., ,(2023) ,World Digital Libraries , 75–88

Sawale, A,(2023) ,DESIDOC Journal of Library & Information Technology , 258-265

Walia, P.K. & Khatri, D. ,(2023) ,Library Philosophy and Practice (e-journal , 7657

Number of M.Phil./Ph.D. Degrees Awarded

M.Phil. : 5

Ph.D. : 8

Faculty Strength

Total : 8

LINGUISTICS

Major Activities and Achievements

The faculty published a total of 8 articles/ chapters, out of which, 6 are in Scopus/Wos/UGC CARE. The faculty also delivered 9 talks at different national and International conferences. Additionally, the faculty was invited for 10 lectures as keynote/ guest speaker/ panel speaker. The faculty were also invited as experts in 4 workshops. Faculty were involved in 7 international and national collaborations including projects by DST and UGC. The faculty attended 5 orientation and refresher courses, including FDPs, FIP. The department organised 7 talks and 1 one-day workshop during the year where eminent guests delivered special lectures. The department also faced the NAAC Peer Review Team successfully.

Publications

Scopus Indexed Journals

Bhatia, S. & Bhatt, R. (2023). Copular Agreement in Hindi-Urdu. *Glossa: A Journal of General Linguistics*, 8(8), 1-40.

Bhatia, S. & Husain, S. (2023). Preverbal syntactic complexity leads to local coherence effects. *Language, Cognition and Neuroscience*, 38, 359–389.

Bhattacharya, T. (2023). Multilinguality as mirroring the primal scene of language acquisition. *SSRN Electronic Journal*, 1-6.

UGC Care-listed Journals

Sharma, V. M. S. (2023). Phonotactics of Erukala (In Telugu), 26, 7-10.

Sharma, V. M. S. (2023). Phonemics of Erukala (In Telugu), 4, 97-108.

Research Projects

Dr. Sakshi Bhatia - DST funded project, Processing of Agreement Dependencies in Indo-Aryan Languages, ₹ 3 lakhs.

Dr. P. Phani Krishna - DST funded project, Documentation and Digitization for Sustainable Development of Indi/Ave: A Critically Endangered Tribal Language of South Odisha, ₹ 47 lakhs.

Dr. P. Phani Krishna – University of Delhi funded project, Documentation of Ethno-Medicinal Plants Used by Juray: A Particularly Vulnerable Tribal Group of South Odisha, ₹ 2 lakhs.

Seminars Organized

Dr. Dripta Piplai, Assistant Professor, Humanities and Social Sciences, IIT, Kharagpur, ‘Understanding Hybrid Languages in Bengal-Odisha-Jharkhand Border’, July 6, 2023.

Dr. Bhim Lal Gautam, Assistant Professor, Tribhuvan University, Kathmandu, Nepal, ‘Language shift in Kathmandu Valley’, July 21, 2023.

Dr. Santosh Kumar, Assistant Professor, Christ University (deemed to be University), Bangalore, ‘Understanding Metonymy of Mental Illness in Indian Languages’, October 18, 2023.

Dr. Michael Webster, Professor, Department of Psychology, University of Nevada, ‘The basis and nature of colour categories’, November 16, 2023.

Dr. Shiva Ram Male, Postdoctoral Research Fellow, Harvard Medical School, Harvard University, Basic Statistics for Language Sciences and Behavioural Research, October 10, 2023.

Dr. Mike Morgan, Independent Researcher, Indian Sign Language Research and Training Center (ISLRTC), ‘Everything you wanted know about Sign Language (But were afraid to ask)’, December 20, 2023.

Seminar/Conference Presentations (National/International)

Tanmoy Bhattacharya presented a paper titled “What do languages tell us about peoples?” during the International Mother Tongue Day and National Science Day organized by IIT Jodhpur on 29 February 2024.

Tanmoy Bhattacharya presented a paper titled “Agree as Labelling: Revisiting Santali Clitics”, during the Seminar SCONLI-14 organized by IIT Kharagpur on February 22, 2024.

Tanmoy Bhattacharya presented a paper titled “Languages in NE India” during the North-East India: Margins, Settlers and Acculturation Seminar organized by St. Stephen’s College, University of Delhi on April 5, 2023.

Sakshi Bhatia presented a paper titled “Cross-linguistic research: Importance of language typology and implications for aphasia; Micro- and Macro-linguistic Analyses” during the British Academy International Training Workshop Aphasia in South Asian Languages Seminar organized by Indian Statistical Institute, Kolkata, India & University of Reading, UK on July 21, 2023.

Sakshi Bhatia presented a paper titled “Prediction (failures) and local coherence in Hindi” during an Invited Lecture Series organized by University of Potsdam, Germany on June 15, 2023.

Sakshi Bhatia presented a paper titled “Copular Agreement in the languages of (Western) India” during the Seminar on FASAL-13 organized by University of Michigan, Ann Arbor, USA on April 2, 2023.

Sakshi Bhatia presented a paper titled “Prediction (failures) and local coherence in a head final language” during an Invited Lecture Series organized by University of Massachusetts, Amherst, USA on April 5, 2023.

Mamta presented a paper titled “Ethics and its limitations” during the National Conference on Ethics in human sciences research and publication, organized by Centre of social medicine & community health, Jawaharlal Nehru University on September 21, 2023.

Mamta presented a paper titled “A comparative study on Grammatical Errors Made by Dyslexic students of Delhi school” during the Seminar on ICOLSI-45, organized by Aligarh Muslim University on November 21, 2023.

V.M.S. Sharma presented a paper titled “Historical Linguistics” during an Invited Lecture Series organized by Telugu University, Telangana on May 1, 2023.

P. Phani Krishna presented a paper titled “Policy, Polity and Identity of Language Diversity in India” during the Seminar on FEL XXVII, organized in Morocco on November 23, 2023.

P. Phani Krishna presented a paper titled “Cognitive Linguistic Study of Sense of Smell” during the Seminar on ALAK, organized in Japan on October 13, 2023.

P. Phani Krishna presented a paper titled “Marginalisation of indigenous community in Odisha a case study of South Odisha” during the Seminar on Marginally and multicultural literary landscape narratives of Australia and India, organized in Guntur, Andhra Pradesh on February 26, 2024.

P. Phani Krishna presented a paper titled “Psycholinguistics and Cognitive science” during an Invited Lecture Series, organized by Berhampur University, Odisha on November 6, 2023.

P. Phani Krishna presented a paper titled “Language and Emotions in Dravidian Languages” during an Invited Lecture Series, organized by CNCS, University of Hyderabad on February 26, 2024.

N. Susheel Kumar presented a paper titled “The Semantic Analysis of Instagram Advertisements” during the Seminar on Drawing Meaning Through Visual Narratives, organized by Presidency University, Bengaluru on August 2, 2023.

N. Susheel Kumar presented a paper titled “English and Linguistics” during the Seminar on Basics of English Language and Linguistics, organized by Venkateshwara Educational Society, Hyderabad on June 12, 2023.

Other Inter-Institutional Collaboration

Institutions involved in collaborations with the Department include University of Reading (UK), MIT (USA), Massey University (NZ) and IIT Delhi.

Placement Details

Number of students placed: 18

Number of M.Phil. Degrees Awarded

Number of M.Phil. Degrees Awarded: 1

Social Outreach

Organised the 62nd meeting of the Critical Disabilities Studies in India on Mental Illness on October 19, 2023.

Other Significant Information

Department organised International Mother Language Day on February 21, 2024.

MODERN INDIAN LANGUAGES AND LITERARY STUDIES

Major Activities and Achievements

The Department of Modern Indian Languages and Literary Studies offers Certificate, Diploma and Advanced Diploma courses in eighteen Indian Languages. The period of 2023-24 attracted large number of students from various colleges; it is encouraging in the context of NEP 2020. Our department has been developing curriculum for various Under Graduate courses during this period under the guidelines of NEP 2020. Our department has a Department Research Forum which enables the Research Scholars and Students to present papers and share their research experiences. The forum ‘Read A Film’ screened films periodically and had coordinated detailed discussions to relate the films with literature and literary theories. The department invited scholars and writers from various Indian languages and disciplines to deliver special lectures.

Publications

Books/Chapter in Books

Rajagopal G. (2023), “Tolkāppiyam (c. 300 BCE): The Earliest Extant Tamil Grammatical Treatise”, in *Glimpses of Tolkap piyam (c. 300 BCE): The Classical Tamil Grammatical Text*, Santiniketan, Visva-Bharati, West Bengal, Dr. Senthil Prakash, S., 978-93, 86463-30-2, 01-33.

Tekchandani R. P. (2023), *Revisiting Partition: Tales of Displacement, Horror, Negotiation and Reconciliation*, New Delhi, IGNC, 9789391045920.

Singh A. H. (2023), *The Maibi Tradition and Lai Haraoba*, Singapore, Springer Nature, 978-981-19-9291-9, 111-120.

Siva S. (2023), *Pazhankuriyidukal kalaikkalanjiyam (Encyclopedia of Ancient Symbols)*, Nagercovil, Kalachuvadu, 978-93-5523-246-5, 01-192.

Ponnan S. (2023), *Contemporary Poem: Analytical and Critical study (Malayalam)*, Kochi, Kavyasahithi Publication, 978-93-94643-48-2, 1-96.

Seminars Organized

21 Language Experts & 6 Assistants, Prof., Associate Prof & Asst. Prof., University of Delhi., The National Council for Promotion of Sindhi Language, Ministry of Education, Government of India, Three Days National Workshop on Translation and Compilation of a Multilingual Glossary of Sindhi and Other Indian Languages, 13-03-2024.

Seminar/Conference Presentations (National / International)

Govindaswamy Rajagopal, 2024-03-13, “Problems and Issues Involved in Translating Simple Sentences, Terms of Relationships, Names of Animals and Birds, Fruits and Vegetables, etc. from Sindhi into Tamil” in Translation and Compilation of Multilingual Dictionaries of Sindhi and other Indian Languages, Dept of MILLS, University of Delhi and NCPSL, New Delhi.

Ahanthem Homen Singh, 2024-03-12, “Preparation of Sindhi and Manipuri Multilingual Glossary”, Translation and Compilation of Multilingual Dictionaries of Sindhi and other Indian Languages, Dept of MILLS, University of Delhi and NCPSL, New Delhi.

Gurumayum Bijoykumar Shirma, 2024-03-12, “South and South East Asia in Manipuri Travelogues”, International Seminar on India’s Culture-based Foreign Policy in South and Southeast Asia, Department of Political Science, University of Delhi & Indian Council of Social Science Research.

Sivaprasad Ponnan, 2023-11-08, “Post Truth Era and Malayalam Literature”, Govt. College, Nedumangad.

Sivaprasad Ponnan, 2024-03-19, “National Education Policy and Mother tongue”, Central University of Kerala, Kasaragod.

Sivaprasad Ponnan, 2024-03-21, “Kumaranasan: The poet of Indian renaissance”, HHMSPB NSS College for Women, Neeramankara.

Tejas Tanaji Chavan, 2023-11-29, “Varkari Sampraday aani Sant Namdev”, Shree Guru Granth Sahib Mein Darj Sant Namdev Ji ki Bani, Dept. of MIL, Aligarh Muslim University, Aligarh.

Students under Exchange Programme: 1

Placement Details: 15

Number of Ph.D. Degrees Awarded

Ph.D. : 19

Number of M.Phil. Degrees Awarded

M.Phil.: 17

Other Significant Information

Our department has 8 Indian Languages and is offering Certificate, Diploma and Advanced Diploma courses in all the languages.

The Department is the Nodal department for teaching and coordinating 18 Indian languages in UG programme across colleges of University of Delhi in the spirit of NEP 2020.

The period of 2023-24 attracted around 1953 UG students from various colleges to take AEC and GE language courses; it is encouraging in the context of NEP 2020.

The Department has been developing curriculum for various Under Graduate courses during this period under the guidelines of NEP 2020.

Our department has a Department Research Forum which enables the Research Scholars and Students to present papers and share their research experiences.

The forum 'Read A Film' screened films periodically and had coordinated detailed discussions to relate the films with literature and literary theories.

The department invited scholars and writers from various Indian languages and disciplines to deliver special lectures.

PERSIAN

Major Activities and Achievements

Within the span of one year, the Department of Persian has achieved some quintessential milestones. It has organized 01 summer school, 05 lectures under "Persian lecture series", 02 International seminar, 01 G20 cultural cum academic event and 01 National seminar during the period. Apart from this, NEP UGCF 2022 up to 6th semester was approved by the EC of the University of Delhi.

Honours/Distinctions

Chander Shekhar

Awarded with the "Legendary Contribution in Education Award" by Ramanujan College in association with CA Pariwar on 5th September 2023.

Journal(s) Published by the Department

Prof. Chander Shekhar, (2023), Persian Research Journal, Department of Persian, UoD.

Seminars Organized

Prof. Chander Shekhar, Meaning of life from the point of view of Mahatma Gandhi and Imam Khomeini, 07-10-2023.

Prof. Chander Shekhar, Revisiting Hundred Years Journey of the Persian Department, University of Delhi, 31-01-2024.

National/International MoUs Signed: 02

Other Inter-Institutional Collaboration: 01

Placement Details : 02

Number of Ph.D./M.Phil. Degrees Awarded

Ph.D. : 08

M.Phil. : 02

PHILOSOPHY

Major Activities and Achievements

QS World Ranking Delhi University

Department of Philosophy got 1st Rank in 2023

Publications

Scopus Indexed Journals

Bhowmick, N. (2022). Putnam and Truth. *Journal of Indian Council of Philosophical Research*, 39(3), 223-235.

Jaiswal, R., & Rai, P. (2024). Why Do We Need to Discuss the Practice of Veiling?. *Sophia*, 1-20.

UGC Care-listed Journals

Gautam, A. (2023). Source of Moral Knowledge. *Tattva Journal of Philosophy*, 15(1), 45-75.

Research Projects

Dr. Aditya K Gupta, ICSSR, Decolonizing Indian Knowledge System, ₹ 12 lakh.

Dr. Enakshi Ray Mitra, IoE, University of Delhi, On the Foundations of Physics and Philosophy: An Intertwined Journey, ₹ 1.95 lakh.

Seminars/Conferences organized

Dr A. Suneetha, Dr. Karein Gabriel, Prof Rakesh Chandra, Dr. Sonia Sikka, Senior Fellow ICAS-MP, Associate Professor St. Stephen College. Prof of Philosophy Lucknow University, Prof. of Philosophy University of Ottawa, MAP, 'The concept of Gaze', February 29, 2024.

Prof. Mrinal Miri on 'Gandhi for the 21st Century', Former Rajya Sabha member & Vice Chancellor, ICPR, December 19, 2023.

Prof. Ananya Vajpai, Prof. Krishna Swami Dara, Prof. Raj Kumar, Fellow CSDS, Jamia Milia Islamia, Department of English, University of Delhi, Self, 'A Colloquy on (Re) Presenting Dr. B.R Ambedkar: Contemporary Context and Concerns', April 12, 2024.

University Teachers, Professors, Associate Professors, Self, 'Philosophy for a Better World: Public Reasoning and Political Culture', December 11, 2023.

College Teachers, Professors, Associate Professors, Self, 'Workshop on 'Curriculum, Pedagogy, and Quality Assurance in Philosophy'', February 23, 2024.

Prof. Scott Stroud, Professor, Department, Prof Scott Stroud's Book Talk 'Intellectual Biography of B.R. Ambedkar', April 22, 2023.

Prof. Prasenjit Biswas, Professor, NEHU, SHILONG, SELF, lecture on 'A Second Personal Phenomenology of Life', April 13, 2024.

Prof. Pradeep Gokhle, Savitribai Phule University, Pune, Self, Lecture on 'Understanding Lokayat Darsan', March 19, 2024.

Prof. R.P. SINGH, Prof Jayshree Mathur, Professor-J,NU, Professor-DU, Self, Curriculum Pedagogy and Quality Assurance, 23-02-2024

Prof. Anil Gupta, Professor, Pittsburg University, Self, lecture on 'Dialectical Foundationalism', March 1, 2024.

Prof. Gopal Guru, Professor, JNU, Ramashray Roy Foundation, seminar on 'Do Concepts have an address?' at 4th Ramashrey Memorial Lecture, February 9, 2024.

Prof. Akeel Bilgrami, Professor of Philosophy, Colambia University, Self, Lecture on 'Liberalism and Identity', December 20, 2023.

Department Teachers, Faculty Members, Self, World Philosophy Day, December 11, 2023.

Prof. Mrinal Miri, Prof. Rajiv Bhargav, Former Chairman ICPR, Faculty CSDS, ICPR, 'Gandhi For 21st Century', December 19, 2023.

Seminar/Conference Presentations (National/International)

P. Kesava Kumar presented a paper titled, 'Gaddar- People's Balladeer: Celebration of his life and Songs' in 'Initiative for Caste Equity' at IIT Delhi on August 22, 2023.

P. Kesava Kumar presented a paper titled, 'Justice, Self-Respect and Moral Governance' at a National Seminar on 'Idea of Justice: Indian and Western' held at Lucknow University on September 25, 2023.

P. Kesava Kumar presented a paper titled, 'Philosophy of Periyar: Surajya and Self-Respect' organized by Parivartan Ki Patasala, Santiniketan, Santiniketan University on November 26, 2023.

P. Kesava Kumar presented a paper titled, 'Democratization of Indian Philosophy: Ambedkar's Engagement with Dewey' at panel discussion on 'John Dewey and Democracy: Reconstruction of Philosophy and Education,' organized by Centre for John Dewey studies on October 13, 2023.

P. Kesava Kumar presented a paper titled, 'Idea of Equality and Moral Community' organized by Lakshmibai College, University of Delhi on March 13, 2024.

P. Kesava Kumar presented a paper titled, 'Ideology and Language Discourse' on Ngugi Wa Thaiango organized by Ubiquitous (Literary Society), Department of English, Ramlal Anand College, University of Delhi on March 18, 2024.

P. Kesava Kumar presented a paper titled, 'Philosophy of Religion and Social Morality: B.R. Ambedkar's Perspective' at ICPR National Seminar on Religion, Morality and Diversity of Human Life, Morality organized by Lakshmibai, University of Delhi on March 19, 2024.

R.M. Singh presented a paper titled, 'The Methodological Roadblocks Before Study of the Mind' in ICPR National Seminar Guwahati University, Guwahat on March 21, 2024.

P. Kesava Kumar presented a paper titled, 'Crisis of Contemporary Political Philosophy: Emancipatory Engagement of Dr. B.R. Ambedkar' at 136 Anniversary of Dr. B.R. Ambedkar organized by Equal Opportunity Cell Miranda House on April 14, 2023.

P. Kesava Kumar presented a paper titled, 'Philosophical Deliberation on Ambedkar's Life & Thought' in Deliberation on Ambedkar's Life & Thought organized by Gargi College, University of Delhi on April 25, 2023.

P. Kesava Kumar presented a paper titled, 'Dr. B R Ambedkar Ideas of India' as Panel Discussion under the aegis of G-20 activities organized by Department of Education, University of Delhi on April 28, 2023.

P. Kesava Kumar presented a paper titled, 'Tradition Modernity and Freedom: Engaging with J Krishnamurthy' in IQAC 4th Lecture on The Modern Indian Philosophers organized by Ramjas College, University of Delhi on September 14, 2023.

Enakshi Ray Mitra presented a paper titled, 'Indeterminacy of Translation: Quine: Bhartṛhari and Later Wittgenstein' in 'PROBLEMS OF SEMANTICS IN YĀYA, MĪMĀṂSĀ, BHARTṚHARI AND W. V. O. QUINE'S ANALYTIC PHILOSOPHY OF LANGUAGE' organized by HU, Varanasi on February 14, 2024.

Enakshi Ray Mitra presented a paper titled, 'Some Enigmas in Indian Philosophy of Language: Attempting Wittgensteinian Solutions' in the National Seminar on 'Meaning of Meaning: Shabdashaktiprakasika and Philosophical Investigation' organized by University of Kalyaani on October 8, 2023.

Enakshi Ray Mitra presented a paper titled, 'Essence and Contingency: Nyaya and Wittgenstein' in National Seminar on 'Language and Reality: Indian and Western' organized by West Bengal State University on August 31, 2023.

Enakshi Ray Mitra presented a paper titled, 'Theories of Truth: An Overview' in ICPR Sponsored Periodic Lectures & One-Day National Seminar on 'Theories of Truth and Knowledge' organized by Department of Philosophy, Ghatal Rabindra Satabarsiki Mahavidyalaya on December 15, 2023.

Sujata Roy Abhijat presented a paper titled, 'Navigating the Gaze: Female Sexual Agency, Empowerment, and the Role of the Oppositional Gaze' in International Seminar on 'GAZE' organized by Department of Philosophy, University of Delhi on February 28, 2024.

Sujata Roy Abhijat presented a paper titled, 'Environmental Ethics: Overview and Relevance in Contemporary Times' organized by D Shri Ramswaroop Memorial University, Lucknow University on February 13, 2024.

Aditya k Gupta presented a paper titled, 'Sankara and Modern India' in National Seminar on 'Jagadguru Sankaracharya: Bhasha Sanskriti and Rashtriya Ekta' organized by Shambhu Dalayal P.G.College, Ghaziabad (U.P.) on March 21, 2024.

Aditya k Gupta presented a paper titled, 'Rashtra and Nation: Examining Differences' in National Seminar on 'Rashtra vis-a-vis Nation: Rethinking Cultural Nationalism' organized by Laxmibai College, University of Delhi on February 29, 2024.

Aditya k Gupta presented a paper titled, 'Tribal life in India' in a seminar on 'Tribal Philosophy and Environment' in CPDHE, University of Delhi on February 22, 2024.

Aditya k Gupta presented a paper titled, 'India's story of Ideas' in the National Conclave on 'The India Story' at Karnavati University, Ahmedabad on November 23, 2023.

Aditya k Gupta delivered a lecture titled, 'Yoga and Mental Health' in a National Webinar organized under the aegis of Department of Higher Education, Govt. of Madhya Pradesh on August 17, 2023.

Aditya k Gupta presented a paper titled, 'Decolonizing Indian Value System' as a resource person in FDP on NEP 'Indian Knowledge System' at Karnavati University, Ahmedabad on June 29, 2023.

Aditya k Gupta presented a paper titled, 'Ethics and values in Indian Knowledge System' as a resource person in FDP on Ethics and values in Indian Knowledge System at Hansraj College, University of Delhi on June 9, 2023.

Aditya k Gupta presented a paper titled, 'Knowledge and Character: Examination of Interrelationship' in a National Seminar on Gandhi at PR Academic Centre, Lucknow on May 23, 2023.

Aditya k Gupta delivered a lecture titled, 'Philosophy and Human Psychology' at Miranda House, university of Delhi on April 7, 2023.

Ayesha Gautam presented a paper titled, 'Shared Civilizational links and its impact on modern ethical behavior' in Shanghai Cooperation Organization Young Author's Conference organized jointly by the National Book Trust, Ministry of Education, and Ministry of External Affairs, Government of India on the occasion of the Shanghai Cooperation Organization Summit with India as its Chairman during 2022-2023, on April 13, 2023.

Ayesha Gautam presented a paper titled, 'Understanding the Trends in Applied Ethics through the Lens of Information Ethics' at ICPR-sponsored 2nd GFYP Annual International Conference on 'Emerging Trends in Philosophy Today' held at Sree Sankaracharya University of Sanskrit, Kalady on May 16, 2023.

Navneet Chopra presented a paper titled, 'Perception under Heideggerian philosophy and its offshoots in cognitive science (embodied enactive cognition, dynamic system theory)' at the Mind, Brain, and Consciousness Conference (MBCC) held at IIT Mandi on December 15, 2023.

Navneet Chopra presented a paper titled, 'Enactive Vs Zen Perception: A Thought Experiment using Muller Lyer Illusion' at TSC (Towards a Science of Consciousness) 2023 held at Taormina, Italy on December 26, 2023.

Reetu Jaiswal presented a paper titled, 'The Gaze of Purity: Analyzing Caste and Gender' in a National Seminar on "Gaze" sponsored by MAP and organized by Alliance School of Liberal Arts, Alliance University on April 25, 2023.

Reetu Jaiswal presented a paper titled, 'Virtual Career Exploration 2023' at Department of Philosophy, Shyama Prasad Mukherjee College, University of Delhi on May 6, 2023.

Reetu Jaiswal presented a paper titled, 'Research Writing Workshop' at Indraprastha college, University of Delhi on March 20, 2023.

Reetu Jaiswal presented a paper titled, 'The Concept of Gaze in/through Bollywood' in a workshop on The Concept of Gaze in/through Bollywood' held at Department of English, University of Goa on January 30, 2024.

Reetu Jaiswal presented a paper titled, 'Addressing Conflict Resolution Challenges: A Gandhian Perspective' at a National Conference on Exploring the Gandhian Approach of Conflict Resolution: Relevance for India and the World in the 21st Century organized by Gandhi Study Circle, Zakir Husain Delhi College, University of Delhi in collaboration with Gandhi Smriti & Darshan Samiti, Ministry of Culture, New Delhi on March 20, 2024.

Reetu Jaiswal presented a paper titled, 'Epistemic Ignorance and Responsibility: A Discussion on the Marginalization of Knowers' at a National Seminar on Epistemic (In)Justice and the Shaping of Indian Society, sponsored by ICSSR and organized by the Department of English and Modern European Languages, University of Allahabad on October 3, 2023.

Placement Details

Number of students placed: 40

Number of Ph.D. Degrees Awarded: 45

PSYCHOLOGY

Brief History

The post-graduation curriculum (M.A. level) for Psychology was introduced in University of Delhi in the year 1957 under the Department of Philosophy and Psychology. The Department of Psychology as an independent department was then later established in 1964 under the headship of Late Prof. H.C. Ganguli.

The University of Delhi, to cope with the ever-expanding student population, evolved a concept of multi-campus system during the early seventies, resulting in the establishment of South Campus in 1973. One of the objectives for its establishment has been to avoid replication of the existing course and provide necessary diversity in the programmes offered by the University at both the campuses. Further, the Ph.D. and MPhil courses were also initiated in the mid 1980s.

The Department currently has two units, one at the North Campus and the other at the South Campus established in 1981. At the North Campus, the courses offered are M.A. Psychology and Ph.D, while at South Campus the course offered is M.A. in Applied Psychology.

Keeping this in view, several new interdisciplinary and applied science courses were started at the South Campus and the Psychology Department started the M.A. Applied Psychology Course at the South Campus. In its endeavour to widen the horizons of the Social Sciences, Applied Psychology Course was designed to train the professional psychologists to serve in hospitals, organizations, and counselling centres as well as the advertising and marketing research agencies.

In recognition of its achievements in teaching and research, the University Grants Commission (UGC) identified this Department as the Department of Special Assistance (DSA) in 1989. The two thrust areas identified are Cognitive Psychology and Applied Social Psychology. Two phases of the DSA Programme (10 Years) have been completed. Recently in 2015 UGC has recommended the Department for SAP (Special Assistance Programme). The Department of Psychology was awarded “Second” position in the event “Awards for good practice” during the Antardhwani-2013 organized by the University of Delhi, Delhi.

The Department has a total strength of 18 teaching faculty out of which currently there are 7 Professors, 5 Associate Professor and 6 Assistant Professors. This includes 1 Professor in the Applied Psychology Unit at the South Delhi Campus. The teaching and research programme is supported by the technical staff at various levels. Apart from the Student Laboratory, meant for the practicum work for the students at the master’s level, we have a few research labs, equipped with necessary amenities. The Seminar Room is equipped with the State-of-the-Art facilities. Presently the best and latest technology gadgets have been procured and set up to enhance the teaching and research activities. One of the strengths of the teaching programme is to establish interface with Industries and Organizations working in varied domains as hospitals, NGOs, Corporate Sectors etc. The M.A. Psychology and Applied Psychology Courses include the latest trends in Psychology, with emphasis on practical training and field work. The courses lay special emphasis on the acquisition of knowledge and skills through theoretical understanding and its practical implications. The Department has already initiated the process of revising all the courses at the undergraduate and postgraduate level. In addition to lecturing as the primary mode of instruction, teaching is also interactive with due emphasis on seminar, presentations and discussions and experiential exercises and peer mentoring.

The Departmental teaching, research and field training are centered around contemporary issues such as stress and health, aging, drug abuse, community mental health, disability, neuropsychological assessment, and rehabilitation, etc. Many of our master's and Ph.D. students after completing their degrees are employed by different organizations/hospitals dealing with these issues.

From time to time, the Department organizes Conferences, Seminars, Refresher Course, Workshops, etc. for the benefit of faculty and students. It has hosted the Indian Science Congress Sessions thrice as well as an International Conference and various National Level Conferences. The Department has organized conferences on Cognitive Psychology, Quality of Life, Human Resource Development. Culture and Psychology, Health Psychology, Affect, Identity and Discourse, Puzzles of Perception and on Indian Psychology. In addition, many research projects have also been undertaken.

Major Activities and Achievements

Students are engaged in Field Training/Internship at different organizations such as IHBAS, Juvenile Justice Board, Indian Oil, Metvy, Nippon, SPYM, Potentials Therapy Center, Unschoo which helps bridge the industry-academia gap. Field visit to Observational Home for Boys -II, STMicroelectronics, Amar Jyoti Institute of Physiotherapy, Old age home were organized as a part of providing practical exposure to students as per their specializations. They were also taken on an educational field trip to Mukteshwar (Uttarakhand). Additionally, suicide prevention day, mental health day were celebrated. A Guest lecture was held by Mr. Ajay Sharma (alumni 88 batch) with 30+ year experience in the corporate field on 'How to become HRBP in the Corporate sector'. A Panel discussion on 'Awareness and repealing laws discriminating against people with HIV/AIDS' by Adv. Sahil Choudhary, Bismaya Raulo, Dr. V Karthik Prasanna was conducted to create awareness on HIV AIDS. The total placements during the said period were 15.

Honours/Distinctions

Prof. S.P.K. Jena delivered a Keynote Address at International Conference on Emerging Trends in Psychological Interventions (Allied & Health Science): Future Prospects and Challenges, 16 November, 2023, Mizoram University, Aizawl.

Prof. S.P.K. Jena is a Member (Chairman) of the Working Group on Clinical and Rehabilitation Psychology for change of the M. Phil. programmes in Clinical and Rehabilitation Psychology courses, 17-18 November, 2023.

Publications

Books/Chapter in Books

Misra Girishwar, & Misra Indiar. (2024). True Love: The Penultimate Emotion, *India*, Springer, 978-3-031-46348-8.

Chadha, N.K., & Rana Shailja. (2024). Introduction to Applied Social Psychology, *India*, Department of Distance and Continuing Education, University of Delhi, 978-81-19417-93-3, 3-22.

Verna Rajesh, & Uzaina. (2024). Spiritual Process and Care for COVID-19 Patients, Caregivers, and Health Workers, *India*, Routledge, 97810 03357 209-7.

Rana Shailja. (2024). Fundamentals of Cognitive Psychology, *India*, Department of Distance and Continuing Education, University of Delhi.

Rana Shailja. (2024). Applications of Social Psychology, *India*, Department of Distance and Continuing Education, University of Delhi, 978-81-19417-93-3.

Rana Shailja. (2024). Social Psychology, *India*, Department of Distance and Continuing Education, University of Delhi, 978-81-19417-56-8.

Journals

Scopus

Bhattacharjee, D., Chaudhary, V., Khate, K., Devi, N. K., Babu, N., & Saraswathy, K. N. (2023). Incidence and risk factors of cognitive impairment: A 6-year follow-up study from North India. *Clinical Epidemiology and Global Health*, 24

Kulshreshtha, M., Saraswathy, K.N., Babu, N., & Chandel, S. (2023). Self-reported perceived stress, depression, and generalized anxiety disorder among Kathak dancers and physically active non-dancers of North India. *Frontiers in Psychology*, 14.

Singh, N., Chaudhary, V., Khate, K., Bhattacharjee, D., Longkumer, I., Kataria, S., Kaur, G., Devi, N.K., Babu, N., & Saraswathy, K.N. (2023). Cognitive impairment viz-a-viz genetic and biochemical variations in one carbon metabolic pathway: A population-based study from North India. *Gene Reports*, 30.

Fatima, M., & Babu, N. (2023). Cognitive and Affective Empathy in Autism Spectrum Disorders: A Meta-analysis. *Review Journal of Autism and Developmental Disorders*.

Babu, N., Khurana, R., & Lochan, A. (2023). The role of theory of mind, executive function and language on children's lying behaviour. *Journal of Cognitive Psychology*, 35, 650-662.

Khurana, R., & Babu, N. (2023). Cross-cultural differences in children's evaluations of antisocial and prosocial lies: A meta-analytic review. *European Journal of Developmental Psychology*, 20, 797-822

Khate, K., Chaudhary, V., Bhattacharjee, D., Kaushik, A., Walia, G.K., Babu, N., Saraswathy, K.N., & Devi, N.K. (2024). Global DNA Methylation and Cognitive Impairment: A Population-Based Study from Haryana, North India. *Indian Journal of Clinical Biochemistry*.

Varma, S. (2023). Issues and Challenges in Integrating Modern Psychology with Indian Thought. *Psychol Stud*, 69, S46–S48.

Aneesh, A., Sia, S.K., & Kumar, P. (2024). Parent-child relationship and psychological well-being of adolescents: Role of emotion regulation and social competence. *Journal of Human Behaviour in the Social Environment*, 34, 153-171.

Nishma, V.M., Sia, S.K., Roy, S., & Wilson, M.A. (2023). Environmentally responsible behaviour among the teachers: role of gratitude and perceived social responsibility. *Journal of Asia Business Studies*, 17, 1167-1182.

Sahoo, B.C., Sia, S.K., Mishra, L.K., & Wilson, M.A. (2023). Workplace ostracism and organizational change cynicism: moderating role of emotional intelligence. *Journal of Asia Business Studies*, 17, 524-538.

Tadi, P.K., Aneesh, A., Neethu, P.S., & Sia, S.K. (2023). Entrepreneurial Intention of Rural College Students: Role of Perceived Behavioural Control, Entrepreneurial Desire and Entrepreneurial Knowledge. *International Journal of Rural Management*, 1-20.

Wilson, M.A., & Sia, S.K. (2023). Buffering role of positive religious coping against the helplessness of elderly people under Covid stress. *Working with Older People*, 27, 26-33.

Chaturvedi, Mudita; Bajaj, M; Singh, Gurvinder Pal; Mitra, Sukanya. (2023). Positive well-being and usefulness of brief mindfulness-based intervention for pain in cancer. *International Journal of Noncommunicable Diseases*, 3, 137- 143.

Bajpai, A. & Tripathi, N. (2023). Perceptions of Economic Status and Social Stigma among Beggars: Implications for Health. *Psychological Studies*.

Chhabra, D., Tushya, Penberthy, J.K., & Dang, S. (2024). Effectiveness of remotely delivered mindfulness and acceptance and commitment therapy-based smoking cessation programs: a systematic review. *Current Psychology*, 43, 8158- 8172.

Tushya, Chhabra, D., & Abraham, B. (2023). Social Networking or Social Isolation? A Systematic Review on Socio-Relational Outcomes for Members of Online Gaming Communities. *Games and Culture*, 19, 1-29.

UGC Care-listed Journals

Fatima, M., & Babu, N. (2023). Theory of Mind in Relation to Moral Evaluation of Intentional and Accidental Harm Behaviour. *Journal of the Indian Academy of Applied Psychology*, 49(2), 255-264.

Lamba, D., & Bajaj, M.K. (2023). Trans-diagnostic cognitive behavioural therapy (CBT) approach for managing Misophonia: A case report. *Indian Journal of Clinical Psychology*, 50(3), 99-103.

Singh Lalit Kumar, Srivastava Kiran, Bajaj Manoj Kumar, Singh Kuljit, Parthi Komila, & Lelremruati. (2023). Role of Gender and family type in Drug Knowledge Attitude and Belief, Risk taking behaviour and Spiritual wellbeing: Indian study among Young Adults. *Indian Journal of Clinical Psychology*, 50, 10-14.

Bhanker, N., Bajaj, M.K., & Chauhan, N. (2023). Stress, Coping and Family Functioning in Parents of Children with Specific Learning Disability and Borderline Intellectual Functioning: A Comparative Study. *Indian Journal of Clinical Psychology*. 49(4), 14-17.

Bajaj, M.K., Dwivedi, A., & Arun, P. (2023). Clinical Factors as Predictors of Neuropsychological Dysfunctions in Obsessive Compulsive Disorder. *Indian Journal of Clinical Psychology*, 50(1), 13-19.

Bajaj M.K. (2023). A living Legend of Cognitive and Clinical Neuropsychology in India. Letter to Editor. *Indian Journal of Clinical Psychology*, 50(1),104-105.

Singh, L.K., Srivastava, K., Bajaj, M.K., & Sharma, V. (2023). Spiritual Experiences, Self Esteem and Negative Evaluation in Daily Life among Adolescents and Adults: Approach from Indian Philosophy. *Indian Journal of Clinical Psychology*, 49(3), 58-62.

Sheoran, V.S., & Mahakud, G.C. (2024). Impact of Internationalizing and Externalizing problem behaviour in Children with Specific Learning Disabilities: A Systematic Review. 87-94.

Jayamohan, P., & Tiwari, P. (2023). Bridging the gap through critical review: Exploring the interlink of mental health literacy, help-seeking attitudes, and mental health stigma. 77, 134-142.

Bansal, T., Manocha, L., & Rana, S. (2023). Ethical Challenges and Considerations of Online Psychotherapy: An Exploration of Indian Clinical Psychologists' Perspectives. 47, 235-241.

Seminar/Conference Presentations (National / International)

International

S.P.K. Jena, presented a paper titled “Risk assessment and development of cognitive screening in protective security” in the International Conference on Optimizing Human Capital of Armed Forces: Psychological Perspective, organised by Defence Institute of Psychological Research, New Delhi, held on 28th April 2023.

Priyanka Tiwari, presented a paper titled “Visual Attention and Word Recognition” in the 28th International and 59th National Conference of the Indian Academy of Applied Psychology (IAAP), Applying Psychology for Professional Excellence, organised by Indian Academy of Applied Psychology (IAAP), held on 2nd February 2024.

National

S.P.K. Jena, presented a paper titled “Mental Health, Sustainable Human Development and Applied Behaviour Analysis” in the seminar on Mental Health Day, 2023, organised by Ravenshaw University, Cuttack, held on 10th September 2023.

S.P.K. Jena, presented a paper titled “Assessment Strategies and Tools for identification of Students with Specific Learning Disabilities at School Level” in the State level Consultative Meet on Inclusive Education for IE Coordinators and Experts, organised by Department of Disability, Govt. of Odisha, held on 27th September 2023.

S.P.K. Jena, presented a paper titled “Specific Learning Disability: Behavioural Approach” in the RCI Sponsored State Level Workshop on Specific Learning Disability: Assessment and Intervention, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 14th October 2023.

S.P.K. Jena, presented a paper titled “Specific Learning Disability: Psychosocial Perspective” in the RCI Sponsored State Level Workshop on Specific Learning Disability: Assessment and Intervention, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 14th October 2023.

S.P.K. Jena, presented a paper titled “Intervention in Specific Learning Disability Neuropsychological Perspective” in the RCI Sponsored State Level Workshop on Specific Learning Disability: Assessment and Intervention, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 14th October 2023.

S.P.K. Jena, presented a paper titled “Cognitive-behavioural Intervention in Specific Learning Disability” in the RCI Sponsored State Level Workshop on Specific Learning Disability: Assessment and Intervention, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 15th October 2023.

S.P.K. Jena, presented a paper titled “Computer-Assisted Instruction in Specific Learning Disability” in the RCI Sponsored State Level Workshop on Specific Learning Disability: Assessment and Intervention, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 15th October 2023.

S.P.K. Jena, presented a paper titled “Individualized Training Programme and Case Studies in Learning Disability” in the RCI Sponsored State Level Workshop on Specific Learning Disability: Assessment and Intervention, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 15th October 2023.

S.P.K. Jena, presented a paper titled “Behavioural Perspective of Poverty Alleviation” in the seminar on Behavioural Perspective of Poverty Alleviation, organised by KIIT, Bhubaneswar, held on 23rd February 2024.

S.P.K. Jena, presented a paper titled “Fundamental Assumptions and Basic Concepts of Applied behaviour Analysis” in a Workshop on Applied behaviour Analysis in Autism Spectrum Disorder, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 3rd March 2024.

S.P.K. Jena, presented a paper titled “Techniques of Applied Behaviour Analysis” in a Workshop on Applied behaviour Analysis in Autism Spectrum Disorder, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 3rd March 2024.

S.P.K. Jena, presented a paper titled “Behavioural Assessment and Diagnosis” in a Workshop on Applied behaviour Analysis in Autism Spectrum Disorder, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 3rd March 2024.

S.P.K. Jena, presented a paper titled “Management of Deficit Behaviour in Autism” in a Workshop on Applied behaviour Analysis in Autism Spectrum Disorder, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 3rd March 2024.

S.P.K. Jena, presented a paper titled “Management of Excessive behaviour in Autism” in a Workshop on Applied behaviour Analysis in Autism Spectrum Disorder, organised by Institute of Mental Health, SCB Medical College, Cuttack, held on 3rd March 2024.

S.P.K. Jena, presented a paper titled as Research on ABA in Developmental Disabilities and Ethical Issues, in a Workshop on Applied behaviour Analysis in Autism Spectrum Disorder, organised by Institute of Mental Health, SCB Medical College, Cuttack, on 3rd March 2024.

S.P.K. Jena, presented a paper titled “Behavioural Management of Stereotyped and Self-injurious Behaviour in Children” organised by Department of Psychology, B.J.B. College, Bhubaneshwar, held on 7th March 2024.

Suneet Varma, presented a paper titled “Indian Psychology at University of Delhi: Current Status” in a Consultation Workshop on ‘Integrating Indian Psychology: Review and Way Forward’. Oct 26 – Oct 28, 2023, organised by Chanakya University, Bengaluru, held on 26th October 2023.

Suneet Varma, presented a paper titled “Pursuing Yoga for Well Being” in an Online Refresher Course in Social and Behavioural Science from February 27 to March 14, 2024, organised by MMTTC, Pt. Ravishankar Shukla University (PRSU), Raipur, held on 4th March 2024.

Surendra Kumar Sia, presented a paper titled “Considering Elderly Well Being as part of Everyday Life (as a Resource Person)” in the National Seminar on Psychology of Everyday Life, organised by Rathinam College of Arts & Science Coimbatore-21, held on 6th March 2024.

Dinesh Chhabra, presented a paper titled as Revisiting the Notions around Mental Health, in the seminar on World Mental Health Week, organised by Dept. of Applied Psychology, Sri Aurobindo College (Eve.), University of Delhi, held on 13th October 2023.

Gopal Chandra Mahakud, presented a paper titled as “Knowing Specific Learning Disorders from Indian perspective” in the National Conference on Comprehensive Mental Health Initiatives in School, organized by Manodarpan, held on 28th February 2024.

Placement Details: 15

Extension and Outreach Activities

-Students are engaged in Field Training/Internship at different organizations such as, BLK-MAX, Lady Hardinge Hospital, IHBAS, Juvenile Justice Board 1 and 3, Women and Child development cell, NCT of Delhi, Indian Oil, Metvy, Eros Group, Delhi Public School, Dwarka Expressway, Nippon Koei India, Deep Thought, Ram Manohar Lohia, SPYM, Jama Masjid, SPYM, Vasant Kunj, Mother son Sumi Wiring India Ltd, Potentials Therapy Centre, Un school, Power within Psychology etc.

Dr. Dinesh Chhabra led an educational field visit to Observational Home for Boys -II.

Dr. Dinesh Chhabra & Dr. Ishita Bharadwaj led an educational field visit to Mukteshwar (Uttarakhand).

Dr. Shailja Rana organized a field visit to STMicroelectronics, Greater Noida on 19th December, 2023.

Dr. Subhash Meena led the M.A. Clinical Psychology students to visit an Old Age Home for practicals of 'Community Mental Health' course on 28th November 2023, 01st and 04th December, 2023.

Dr. Subhash Meena and Dr. Shalini Chaudhary led field visit to Amar Jyoti Institute of Physiotherapy, Karkardooma on 06th and 8th November, 2023.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 10

Faculty Strength

Professor: 07

Associate Professor: 05

Assistant Professor: 06

Social Outreach

The Students go for field training to NGOs, rehabilitation centres, old-age homes etc. like Amar Jyoti, IHBAS, Juvenile Justice Board.

Other Significant Information

Jena, S. P. K. (2023). Quality of life of people with intellectual disability, Disability Rehabilitation Research, 1, 1, 21-27. ISSN 2320-0944.

Jena, S. P. K. (2023). Seizure Disorder: Diagnosis, Neuropsychological Assessment and Intervention, Chetana Journal of Social Sciences, 1, 1, 100-119.

Jena, S. P. K. (2023). Why do people suffer from eating disorders? A Critical Evaluation of the Contemporary Etiological Models of Eating Disorders, Indian Journal of Health Studies, 4, 2, 83-96, ISSN 2538-0759.

17 students and 2 faculty members from WMO Imam Gazzali Arts and Science College, Kerala came to the Department of Psychology for an Institutional visit on 5th December.

PUNJABI

Major Activities and Achievements

The Department of Punjabi framed the syllabus of Under Graduate Programme under the New Education Policy. The Department celebrated the International Mother Tongue Day (February 21, 2024). Apart from this, the Department organized 18th Dr. Harbhajan Singh Memorial Lecture Series on March 19, 2024.

Honours/Distinctions

Ravinder Kumar has been appointed as Director, Centre for Independence and Partition Studies, University of Delhi.

Ravinder Kumar has been appointed as Professor of Eminence in Guru Nanak Dev University, Amritsar on December 12, 2023.

Ravinder Kumar, Chairman, Governing body, Aditi Mahavidyalaya, Delhi from July 15, 2023 to July 14, 2024.

Publications

Books/Chapter in Books

Baljinder Singh, (2023). Amber Pariyan , *Raj Kamal, New Delhi* , New Delhi , 978-81-19092-23-9, 1-272.

Jaspal Kaur, (2023). Baandar Naal Bahish Kaun Kare : Chetan/Achetan di Shabdik leela , *Chandigarh*, Saptrishi Publication , 97881-19370-28-3, 173-178.

Nachhattar Singh, (2023). Punjabi Bhasha da Mudhla Padhar, (Ling ate Vachan di Varton, Vak Vodh) , *New Delhi*, Department of Distance and Continuing Education, Campus of Open Learning, ,978-81-19169-96-2, 28-33.

Rajini Bala, (2023). Punjabi Bhasha Da Mudhla Padhar , *New Delhi* , Department of Distance and Continuing Education, Campus, 978-81-19169-96-2, 1-28.

Yadwinder Singh , (2023). Aje Patiale dian Galian vich Lali Ghumda Hai (pp. 209-223), chapter in Book 'Lali Baba', *Patiala* , Sukhwinder, Caliber Publications, 978-93-8844-86-0-4, 209-223.

Yadwinder Singh, (2023). Punjab De Civil Samaj Da sankat, Chapter in book Punjab: Searching for a Bright Future , *Amritsar* , Ravi Sahit Parkashan, Amritsar, 978-9391605-09-4, 217-227.

Yadwinder Singh, (2023). Desire, Love, SpiritualityTransformation of the Self in Amrita Pritam's Writings , *Routledge, New York* , Routledge, New York, 978-1-032-76408-5, 3-948.

Yadwinder Singh, (2023). Wade Vele dia Tariya (Trans), (Original Title: Sepia Leaves, Amandeep Sandhu) , *Amritsar* , Sachal Parkashan, 978-81-19734-56-6, 1-296.

Research Projects

Yadwinder Singh, IoE, University of Delhi, Formation of Religious and Linguistic Identities in Colonial Punjabi Literature, ₹ 2 Lakh.

Seminars/Conferences Organized

Prof. Rajesh Sharma Prof. Jasvinder Singh Prof. Rana Nayar, Punjabi University, Patiala and Punjab University, Chandigarh, Department of Punjabi, University of Delhi, Research Methodology in Punjabi, Hindi and English Language , November 23, 2023.

Navtej Johar Dr. Madan Gopal Singh, Renowned Bharat Natayam Artist and Yoga Expert, Department of Punjabi, University of Delhi, Dr. Harbhajan Singh Memorial Lecture, March 19, 2024.

Seminar/Conference Presentations (National/International)

Kulvir Gojra, Mohinder Singh Sarna di Birtantik Drishti, Birth Centenary Seminar on Mohinder Singh Sarna, Bhai Vir Singh, Sahitya Academy at Bhai Vir Singh Sahitya Sadan, September 27, 2023.

Kulvir Gojra, Delhi University vich Punjabi di Ucheri Padhari da Safar, 8th Amritsar Sahit Utsav ate Pustak Mela-2024, Khalsa College Amritsar, September 28, 2023.

Kulvir Gojra, Construction of Hero in Punjabi Tradition, 33rd International Conference on Heroic Tradition of Punjab, World Punjabi Congress at Lahore, Pakistan, September 29, 2023.

Kulvir Gojra, Ghadar Movement and the Role of Indian Diaspora in India's Freedom Struggle, International Conference on Ghadar Movement and the Role of Indian Diaspora in India's Freedom Struggle, Sri Guru Nanak Dev Khalsa College, September 30, 2023.

Ravinder Kumar, Bharatiye Bhashaonke Antar-Sambandh, National Conference, Indian Institute of advanced Study, Shimla, October 1, 2023.

Nachhattar Singh, Facing Challenges in Punjabi Language: Problem and Solutions, National Seminar, Post –Graduate Department of Punjabi, DAV College Bathinda, October 2, 2023.

Yadwinder Singh, Parh Akhar Eho Bujhiye', Punjabi University Literature Festival, Punjabi University Patiala, October 3, 2023.

Yadwinder Singh, Punjab at Crossroads, Moderate the Valedictory Session of the International Seminar, National Institute of Panjab Studies, IIC Delhi, October 4, 2023.

कुलवीर गोजरा, मोहिंदर सिंह सरना दी बिरतांतिक दृष्टि, मोहिंदर सिंह सरना पर जन्म शताब्दी सेमिनार, भाई वीर सिंह साहित्य सदन में साहित्य अकादमी, October 5, 2023.

कुलवीर गोजरा, दिल्ली यूनिवर्सिटी विच पंजाबी दी उचेरी पधारी दा सफर, 8वाँ अमृतसर साहित्य उत्सव खाया पुस्तक मेला-2024, खालसा कॉलेज अमृतसर, October 6, 2023.

कुलवीर गोजरा, पंजाबी परंपरा में हीरो का निर्माण, पंजाब की वीरतापूर्ण परंपरा पर 33वां अंतर्राष्ट्रीय सम्मेलन, लाहौर, पाकिस्तान में विश्व पंजाबी कांग्रेस, October 7, 2023.

कुलवीर गोजरा, ग़दर आंदोलन और भारत के स्वतंत्रता संग्राम में प्रवासी भारतीयों की भूमिका, ग़दर आंदोलन और भारत के स्वतंत्रता संग्राम में प्रवासी भारतीयों की भूमिका पर अंतर्राष्ट्रीय सम्मेलन, श्री गुरु नानक देव खालसा कॉलेज, October 8, 2023.

रविंदर कुमार, भारतीय भाषाओं के अंतर-संबंध, राष्ट्रीय सम्मेलन, भारतीय उन्नत अध्ययन संस्थान, शिमला, October 9, 2023.

नछतर सिंह, पंजाबी भाषा में चुनौतियों का सामना: समस्या और समाधान, राष्ट्रीय संगोष्ठी, स्नातकोत्तर पंजाबी विभाग, डीएवी कॉलेज बठिंडा, October 10, 2023.

यादविंदर सिंह, परह आखर इहो बुझिये, पंजाबी विश्वविद्यालय साहित्य महोत्सव, पंजाबी यूनिवर्सिटी पटियाला, October 11, 2023.

यादविंदर सिंह, चौराहे पर पंजाब, अंतर्राष्ट्रीय संगोष्ठी के समापन सत्र का संचालन करें, राष्ट्रीय पंजाब अध्ययन संस्थान, आईआईसी दिल्ली, October 12, 2023.

Degrees Awarded

Number of Ph.D. Degrees awarded: 10

Number of M.Phil. Degrees awarded: 1

Extension and Outreach Activities

Several Students of the Department of Punjabi participated in Bhai Vir Singh Essay Writing Competition held on May 31, 2023 and secured 1st and IInd Position.

Other Significant Information

Participated in faculty Development Programme on Communication and Presentation Skills in Classroom Teaching, Dated December 18, 2023 to December 22, 2023 at Delhi University, Computer Centre (DUCC).

Nacchhattar Singh has participated in 3 day Faculty Development Program on Certificate course on Digital Teaching Techniques, conducted by ICT Academy on April 17, 2023 to April 19, 2023 at university of Delhi, Computer Centre (DUCC).

Rajni Bala, recorded a talk on the topic 'Sufi Kavi Shaikh Farid di Punjabi Sahit nu Den', for Prasar Bharati, All India Radio, Delhi, Dated: April 6, 2023.

Ranju Bala, content writer of Punjabi character variation Model of WWW standard of W3C. Character Model for the World Wide Web-string Matching WSI (Web Standardization initiative) TDIL the Ministry of Electronics and Information Technology of India.

Ranju Bala, participated in Three days Faculty Development Programme on 'Digital Training Skills' organised by Delhi University Computer Centre (DUCC) from April 17, 2023 to April 19, 2023.

SANSKRIT

Major Activities and Achievements

Department of Sanskrit, University of Delhi is as old as the University. It offers various Programmes such as PhD. M.A., Diploma and Certificate and B.A. (in constitutional colleges). The major focus of the department is research in interdisciplinary areas and ancient Indian knowledge traditions. It also focuses on computational Sanskrit. This is the only department which offers almost all the areas of study such as Vedic studies, Darshana, Sahityashastra, Grammar and Linguistics, Dharmashastra, Epigraphy, Jyotish, Itihas-purana and Computational Sanskrit in Sanskrit in M.A and research. It follows traditional and modern teaching methods.

Honours/Distinctions

Faculty

Prof. Balram Sukla appointed as the Director of Indian Culture Centre (ICC).

Prof. Ranjit Behera, Member, Executive Committee, Delhi Sanskrit Academy, Delhi.

Publications

UGC Care-listed Journals

Behera, R. (2023). Vajasaneyipratishakhyagata-uvatanantabhashyayoh samiksha. *Gurukul-Patrika*, 74, 7-13.

Behera, R., Kumar, V. (2023). Jaiminiya Shautasutra Me Varnit Agnistom Mimamsa, *Pavamani*, 38, 12-25.

Singhal, S. (2023). त्रैमासिकी मूल्याङ्किता वैदिक शोधपत्रिका , अष्टात्रिंश, द्वितीय खण्ड, 41-55

Tripathi, R.K. (2023). Kalidas krit Natkon ewam khandkavyon men purusharth chatustya, *Shikshan Aani Samaj*, 47, 07-12.

Research Projects

Dr. P. Phani Krishna – University of Delhi funded project, Documentation of Ethno-Medicinal Plants Used by Juray: A Particularly Vulnerable Tribal Group of South Odisha, ₹ 2 lakhs.

Prof. Ved Prakash Dindoriya - Minor project, grant under Faculty Research Programme (FRP), The Cloud as a messenger in Sanskrit messenger poems (Dūtakavyas), ₹ 2 lakhs.

Prof. Ranjan Kumar Tripathi – Institute of Eminence (IoE) grant, Ramayan, Mahabharat Tatha Kautilyiy Arthashastra mein Varnit Lokaniti evam Shaasan Vyavastha ki Samasamayik Prasangikata (Rashtriy Shikshaniti), ₹ 15 lakhs.

Dr. Subash Chandra – Institute of Eminence (IoE) grant, Development of an Online Indexing and Concept Mining System for Nāradasmr̥ti, ₹ 3 lakhs.

Dr. Subash Chandra – Institute of Eminence (IoE) grant, Digitization and development of web-based instant reference system for Dharmaśāstric knowledge tradition, ₹ 2 lakhs.

Dr. Uma Shankar – Institute of Eminence (IoE) grant, Kautilya Arthshastra me Varnit Prabandhan ke siddhanton ki Vartman mein Prasangikta, ₹ 2 lakhs.

Dr. Meenakshi – Institute of Eminence (IoE) grant, Sociological Speculations of indo European speakers, ₹ 2 lakhs.

Prof. Ranjan Kumar Tripathi - Hon'ble Vice Chancellor of University of Delhi grant, Study /Review the essence of a manuscript which dealt with Vedic Nuclear Science in ancient time, ₹ 3 lakhs.

Seminars Organized

Prof. Shashi Prabha Kumar, Former Vice-Chancellor, Sanchi University of Buddhist-Indic Studies, 'वैशेषिकी ज्ञानमीमांसा', April 28, 2023.

Prof. Shri Nivasha Varkhedi, Vice Chancellor, Central Sanskrit University, Delhi, Central Sanskrit University, Delhi, 'भारतीय शास्त्रपरम्परा: सामयिक: सन्दर्भः', July 23, 2023.

Dr. Chandan Shrivastava, Academic Cordinator, Bharti Bhasha Samiti, Bhartiya Bhasha Samiti, Delhi, March 17, 2024.

Prof. Shashi Tiwari, Retired Associate Professor, WAVES-India, Man and Nature in Vedic Tradition : Modern Perspective, December 3, 2023.

Seminar/Conference Presentations (National/International)

Uma Shankar presented a paper titled "Vedon mein jal-sanrakshan" during the International Rajasthan Technical University, Kota and Paryavaran Sanrakshan Gatividhi on October 10, 2023.

Uma Shankar presented a paper titled "Uttarakhand Vastushastra Parampara" during an online lecture series organized by Uttarakhand Sanskrit Academy, Uttarakhand on September 28, 2023.

Somveer Singhal presented a paper titled "व्याकरणविनोद में वर्णित अव्ययीभाव की समीक्षा" during the Seminar on व्याकरणविनोद organized by संस्कृत विश्वविद्यालय, नई दिल्ली एवं राष्ट्रीय संगोष्ठी on March 22, 2024.

Somveer Singhal presented a paper titled "शारीरकविमर्श" during the राष्ट्रीय संगोष्ठी organized by श्री शंकर शिक्षायतन वैदिक शोध संस्थान, नई दिल्ली on November 30, 2023.

Somveer Singhal presented a paper titled "महर्षि दयानन्दकृत मन्त्रार्थ की विशेषताएं" during the three day Seminar organized by Jawaharlal Nehru University, New Delhi on February 23, 2024.

Somveer Singhal presented a paper titled "भारतीय योग परम्परा" during the an International Conference on द्विदिवसीय अन्तर्राष्ट्रीय योग महासम्मेलन organized by अध्यात्म योग संस्थान एवं संस्कृत विभाग व, (आई.क्यू.ए.सी.), भारती महाविद्यालय (दिल्ली विश्वविद्यालय) on October 19, 2023.

Vijay Shankar Dwivedi presented a paper titled “Saral Manak Sanskritam” during a one day National Workshop organized by Department of Sanskrit, University of Delhi in collaboration with Bhartiya Bhasha Samiti, Ministry of Education, Government of India on March 17, 2024.

Vijay Shankar Dwivedi presented a paper titled “भारतीय योग परम्परा” during the an International Conference on द्विदिवसीय अन्तर्राष्ट्रीय योग महासम्मेलन organized by अध्यात्म योग संस्थान एवं संस्कृत विभाग व, (आई.क्यू.ए.सी.), भारती महाविद्यालय (दिल्ली विश्वविद्यालय) on October 19, 2023.

Vijay Shankar Dwivedi presented a paper titled “Kensukta mein Vrnit Sharirik Sanrachna” during a National Seminar organized by School of Sanskrit and Indic studies, Jawaharlal Nehru University, New Delhi on February 23, 2024.

Vijay Shankar Dwivedi presented a paper titled “Atharvvediya Dampatyjeeva” during the an International Conference on Vividhgyanvigyanasy sroth Atharvvedah organized by Uttarprades Sanskrit Sansthan Lucknow & Samrpananand Vedic Shodhsansthan Meerut on January 13, 2024.

Vijay Shankar Dwivedi presented a paper titled “Man and nature in Vedic tradition : Modern Perspective” during the National seminar on Man and nature in Vedic tradition organized by WAVES and Department of Sanskrit, South Campus, University of Delhi on December 1, 2023.

Vijay Shankar Dwivedi presented a paper titled “Vedo me Rashtravad” during a National seminar organized by Punjab University, Hoshiarpur in collaboration with Mahashi Sandipani Vedvidya Pratishthan, Ujjain on November 28, 2023.

Meenakshi presented a paper titled “Bhartiya Dhatuvigyan:sahitiyaka evm puratattvika sakshyon ke sandhrb me” during the National seminar on Man and nature in Vedic tradition organized by WAVES and Department of Sanskrit, South Campus, University of Delhi on December 1, 2023.

Satyapal Singh presented a paper titled “National Education and Scientific Terminology in Indian Language” during a National Conference organized by CSSTT on June 23, 2023.

Daya Sankar Tiwary presented a paper titled “Bhartiya Gyan Parampara me Vigyan” during the National seminar on Science in Bhartiya Knowledge Tradition organized by Satyawati College Evening, University of Delhi on April 20, 2023.

Daya Sankar Tiwary presented a paper titled “Indian Aesthetics and Natyashastra” during the National seminar on Indian Aesthetics and Natyashastra organized by Satyawati College Evening, University of Delhi and LNJP Hospital, New Delhi on June 7, 2023.

Daya Sankar Tiwary presented a paper titled “Sanskrit evam Bhartiya Sanskriti ke Paripekshya me- Nari Dasha aur Disha” during an International Sanskrit Vidushi Conference organized by Lakshmibai College, University of Delhi and Sanskrit Sanskriti Vikas Sansthan on June 9, 2023.

Daya Sankar Tiwary presented a paper titled “Jivan ka Utkarsh-Yoga” during an International Yoga Day organized by Satyawati College, University of Delhi on June 20, 2023.

Daya Sankar Tiwary presented a paper titled “Shrimadbhagwatgeeta me purushottam Yoga” during the Seminar on Shrimadbhagwatgeeta me purushottam Yoga organized by Vaishvik Sanskrit Manch, Delhi on June 25, 2023.

Daya Sankar Tiwary presented a paper titled “Atharvediya Surya Chikitsa Paddhti evam Iski Vartman Kalik Prasangikt” during the Seminar on Atharved me Chikitsa Paddhti organized by SVS Gurukul Prabhat Ashram on August 27, 2023.

Daya Sankar Tiwary presented a paper titled “Science in Sanskrit Literature” during the Malivya Mission Teacher Training Program organized by Sanskrit Department, University of Calcutta on December 15, 2023.

Daya Sankar Tiwary presented a paper titled “Ayurveda and its Various Dimensions” during a Workshop on Ayurveda and its Various Dimensions organized by Sanskrit Department, Zakir Husain College, University of Delhi on February 3, 2024.

Daya Sankar Tiwary presented a paper titled “Rachana me Saundarya aur Mulya Srijan” during the Jaipur Pinkfest Sahitya Sammelan organized by LNJP Foundation & IIKBM on March 2, 2024.

Daya Sankar Tiwary presented a paper titled “Bhartiya Sanskriti aur Bharat Bodh” during a National Seminar organized by Satyawati College Evening, University of Delhi on March 13, 2024.

Ranjit Behera presented a paper titled “Yaskabhimata-Kalavimarsah” during the National Seminar on Man and Nature in Vedic Tradition: Modern Perspective organized by WAVES and Dept of Sanskrit, South Campus, University of Delhi on December 1, 2024.

Number of Ph.D. Degrees Awarded

Number of Ph.D. Degrees Awarded: **32**

Number of M.Phil. Degrees Awarded

Number of M.Phil. Degrees Awarded: **9**

SLAVONIC & FINNO-UGRIAN STUDIES

Major Activities and Achievements

Introduction of new programme of B.A. (Hons.) Russian from the Academic Year 2024-25.

Honours/Distinctions

Order of Friendship, a State Decoration of the Russian Federation, by the Decree of the President of the Russian Federation No 825 dated November 8, 2023 to Dr. Girish Munjal, Assistant Professor.

Publications

UGC Care-list indexed Journals

Anju, R.& Pal, S. (2024). Identity Challenges in Post-Soviet Russia: A Critical Analysis of Denis Gutsko's novel Without a Trace. *International Journal of Novel Research and Development (IJNRD)*, 9(3), 646- 652.

Pal, S. (2024). The Literary Response to the Russia-Ukraine Crisis: Perspectives from Contemporary Ukrainian and Russophone Writers. *International Journal of Novel Research and Development (IJNRD)*, 9, 619- 622.

Pal, S. (2024). Nicholas Roerich: A Journey Towards Universal Harmony. *International Journal of Science and Research (IJSR)*, 13, 619- 622.

Books/Chapter in Books

Atmoja Bose , (2024) , Лингвистическая относительность в обучен , *Moscow* , МПГУ Москва , 978-5-4263-1374-3, , 66-70.

Girish Munjal , (2023) , The Interdisciplinary Course: Introduction to Russian Culture at University of Delhi , *A. U. Nesterova. Ministry of Higher Education of the Russian Federation. Samara University Publication* , Samara University Publication , 978-5-7883-1993-3 , 80-84.

Girish Munjal , (2023) , СРАВНИТЕЛЬНЫЙ АНАЛИЗ СЛООБРАЗОВАНИЯ КОЛИЧЕСТВЕННЫХ ЧИСЛИТЕЛЬНЫХ В САНСКРИТЕ, РУССКОМ, ХОРВАТСКОМ И ПОЛЬСКОМ ЯЗЫКАХ , *Ilyukhina N.A. Samara Humanities Academy, Samara City, Russia* , Samara City, Russia , 978-5-98996-264-8 , 94-103.

Research Projects

Atmoja Bose, Asiatic Society, An Untold Journey of a Russian Indologist, ₹ 3,41,980.

Seminars/Conferences Organized

Ekaterina Kulikova, Associate Professor, NA, Workshop for student, November 24, 2023.

Ekaterina Kulikova, Associate Professor, NA, Workshop for Teachers Russian for anglophones Teaching features , November 24, 2023.

International Youth Edu-Skill Foundation, Members, NA, Presentation of World Youth Festival, October 18, 2023.

Konovalenko Tatyana Alekseevna, Associate Professor, NA, Interaction with the Student RUDN University, December 8, 2023.

Lyudmila Simonenko Minin University Russia, Associate Professor, NA, Secrets of the Russian Soul, December 15, 2023.

Maria Lonskaya, Associate Professor , NA, Workshop for student, November 24, 2023.

Razumny Vladimir Yurievich, Associate Professor, NA, Interaction with the Student RUDN University, December 8, 2023.

RT New Channel, Media, NA, RT Documentary Screening, December 15, 2023.

Svetlana Igorevna Yelnikova , Associate Professor, NA, Workshop for Teachers Modern forms and methods of Teaching RCT, November 24, 2023.

Seminar/Conference Presentations (National/International)

Anju Rani, Identity Challenges in Post-Soviet Russia: A Critical Analysis of Denis Gutsko's novel Without a Trace, International Young Researchers' Conference (IYRC) 2024 on 'Recent Trends in Research: Indian & Foreign Languages, School of Language, Literature and Culture Studies (SLL&CS) and Special centre for Tamil Studies, JNU under the aegis of ICSSR, March 1, 2024.

Atmoja Bose, Diachronic Study in teaching Russian as Foreign Language., International Conference “Methodology and Technology in Teaching Russian as a Foreign Language, International Conference “Methodology and Technology in Teaching Russian as a Foreign Language, February 15, 2024.

Atmoja Bose, Experimental Lexicography, International Conference BRICS “The Increasing Role of Russian Language in the BRICS and SCO Countries: Education, Language and Culture”, March – 2024, Department of SFUS, March 13, 2024.

Girish Munjal, celebrate 225th birth anniversary of Adam Mickiewicz, Jamia Milia Islamia University, Jamia Milia Islamia University, February 28, 2024.

Girish Munjal, Cyrillic Script: History & Modern Form, Russian House in New Delhi, Russian House in New Delhi, May 31, 2023.

Girish Munjal, Innovative Methods of Teaching Russian Language & Culture, International Conference “The Increasing Role of Russian language in the BRICS and SCO countries: Education, Language and Culture, Department of SFUS, March 12, 2024.

Girish Munjal, Life & Works of Alexander Pushkin, Seminar held in Department of Foreign Languages, Jamia Milia Islamia University in collaboration with the Embassy of the Russian Federation, Department of Foreign Languages, Jamia Milia Islamia University, February 29, 2024.

Girish Munjal, Modern Technologies as the catalysts for integrating culture into the Information Society’, the IXth Saint-Petersburg International Cultural Forum held in Petersburg, Ministry of Culture, Russia & Russian State Library, Moscow, November 15, 2023.

Girish Munjal, Pushkin: Biography & his Novel Eugene Onegin, Russian House in New Delhi, Russian House in New Delhi, May 31, 2023.

Girish Munjal, Putting the Reader’s Own Emotions in Words: Adam Mickiewicz & his Sonnets, Seminar to celebrate 225th birth anniversary of Adam Mickiewicz, Department of SFUS & the Polish Institute in New Delhi, January 22, 2024.

Girish Munjal, The mission of the Russian language in a multipolar world, XV Russkiy Mir Assembly, Russkiy Mir Foundation, Moscow, Russia, November 2, 2023.

Shitanshu Bharti, Ancient Indian Literature through the Prism of Pre-Revolutionary Russia, International Conference BRICS “The Increasing Role of Russian Language in the BRICS and SCO Countries: Education, Language and Culture”, March – 2024, Department of SFUS, March 13, 2024.

Shraddha Pal (co-author), Identity Challenges in Post-Soviet Russia: A Critical Analysis of Denis Gutsko's novel Without a Trace, International Young Researchers' Conference (IYRC) 2024 on 'Recent Trends in Research: Indian & Foreign Languages, School of Language, Literature and Culture Studies (SLL&CS) and Special centre for Tamil Studies, JNU under the aegis of ICSSR, March 1, 2024.

Shraddha Pal, Morality under scrutiny: perspectives of Raskolnikov and Balram Halwai in “Crime and Punishment” and “The White Tiger, IV INTERNATIONAL YOUNG RESEARCHERS’ CONFERENCE Russian Studies Today: Emerging Trends in Language, Literature and Culture, CRS, JNU New Delhi, August 24, 2023.

National/International MoUs Signed

The Memorandum of Understanding between University of Delhi and Udmurt State University.

The Cooperation Agreement between the University of Delhi and Moscow City University (MCU).

Social Outreach

The Department has Anti-Smoking Committee to ensure non-smoking zone in the premises of the Department. The Department has committee to curb caste based and gender discrimination.

Other Significant Information

The Department organized Annual Day of the Department on 28.03.2024.

URDU

Major Activities and Achievements

The teachers of the Department are actively engaged in research and publications work in different areas of Urdu Language and Literature. A number of distinguished visitors, Professors and eminent personalities visited the Department to deliver the special lectures and interact with faculty members as well as the students of the Department.

Publications

UGC Care-list Indexed Journals

Prof. Arjumand Ara , (2023-24) , 1. Aankhen aur Neend ka Rang 2. Aaj ki Pakistani Kahaniyan-1 3. Aaj ki Pakistani Kahaniyan-2 4. Pakistani Bachcha 5. Islam aur Maghrib 6. Uttar ki or Gaman ka Mausam 7. Khema 8. Kaani Nikaah 9. Saleha Saleha 10. Cheeni Kothi , 1. Delhi 2. Bikaner 3. Bikaner 4. Delhi 5. Delhi 6. Delhi 7. Delhi 8. Bikaner 9. Bikaner 10. Bikaner , 1. Arshia Publications 2. Surya Prakashan Mandir 3. Surya Prakashan Mandir 4. Arshia Publications 5. Arshia Publications 6. Anugya Books 7. Anugya Books 8. Surya Prakashan Mandir, Bikaner 9. Surya Prakashan Mandir 10. Surya Prakashan Mandir , 1. ISBN 978-81-19533-36-7 2. ISBN 978-81-19875-83-5 3. ISBN 978-81-19875-79-8 4. ISBN 978-81-19533-98-5 5. ISBN 978-93-93998-80-4 6. ISBN 978-81-19019-28-1 7. ISBN 978-81-19019-38-0 8. ISBN 978-93-92252-55-6 9. ISBN 978-93-92252-54-9 10. ISBN 978-93-92252-53-2 , 1. 342 2. 224 3. 200 4. 134 5. 90 6. 143 7. 120 8. 102 9. 160 10. 195

Dr. Irshad Ahmad Khan , (2023-24) , 1. Sher Shah Suri 2. SHER –E- ASHOB 3. Farooqi ke Friction me Ghalib ki Kalmi Tasweer , 1. Delhi 2. Delhi 3. Delhi , 1. Azra Book Traders 2. SABAQ-E-URDU 3. Aiwan-e-Urdu , 1. 978-93-95041-45-4 2. 2321-1601 3. 2321-2888 , 1. NA 2. 30-34 3. 12-15

Prof. Abu Bakar Abbad , (2023-24) , 1. Ibne Knwal: Insan, ustaz aur Sadr Shoba-e-Urdu 2. Khuda e Sukhan ke kalam me Jinsi Paikar 3. Jismani Tehzeeb aur Jinsi Talazzus ka Sahyer: Meer taqi Meer 4. Shamoel Ahmad: yaden, atetn aur Fan 5. Dyare Mus'hafi mein Dakhley ki Koshish 6. Maulana Ahmad Sayeed Dehlavi: Bahaisiyat Maktoob nigar 7. comuniszm ka mard-e- Momin: Faiz, Ahmad Faiz, Adab-o-Saqafat , 1. Delhi 2. Darbhanga 3. Karachi, Pakistan 4. Munger 5. JMI, New Delhi. 6. ,New Delhi 7. NA , 1. Aiwan-e- Urdu 2. Jahan-e- Urdu 3. Qaumi Zaban 4. Salis 5. Tadrees Nama 6. , Ajkal 7. Research & Refereed Journal) , 1. ISSN:2321-2888 2. , ISSN: 2278-347 3. NA 4. , ISSN: 2348-1129 5. ISSN: 2320-6624 6. ISSN: 0971-846 7. ISSN 2455-0248 , 1. Pp20-25 2. 11-24 3. pp93-102 4. pp29-36 5. pp234-242 6. 9-11 7. pp 87-105

Prof. Najma Rehmani , (2023-24) , 1. Nisayi Afsane ki Munfrid 2. Galib Tamasha aor Tamashayi 3. Kalam-e- Meer ke syasi Hawale 4. Naye raste Banane 1. Nisayi Afsane ki Munfrid awaz S. no 2 ISSN-2321-2888. 2. Galib Tamasha aor Tamashayi 3. Kalam-e- Meer ke syasi Hawale 142-150 4. Naye raste Banane wala shayer, Mzhar Imam 5. Dastak, half yearly, July to December 2023 ,

Prof. Najma Rehmani , 2023-24 , 1. Khawateen Duniya, August-2023, P,10-13 ISSN-2581-4826, UGC CARE no-15 2. SSN N/A, RNI No: URDU/ 05422/17/5/2018(Peer reviewed, UGC-CARE listed) Vol-6 Issue-12. 3. Urdu Duniya, Montly, March 2024 P 39-42, vol 26, Issue-3 ISSN-22490639 UGC-Care S.No 32.

Seminar/Conference Presentations (National / International)

National

Lecture on the Hindi Translation of Sharad Baviskar's Autobiography Bhura by People's Publishing House, New Delhi, at a symposium on the occasion of the release of the Hindi translation of the Marathi book *Bhura*, on September 23, 2023.

Paper on Understanding Issues of Sexuality and Gender through Translations presented at a two-day seminar on 'Translating Sexualities' by the Centre for Gender, Culture, and Social Processes, St. Stephen's College, Delhi University, on April 5-6, 2023.

Paper on Translating Literature to Establish Communication with Different Cultures presented at a National Seminar on 'Urdu Translation in Modern Era: Significance, Problems, and Prospects' by the Department of Urdu, School of Humanities, University of Hyderabad (AP), on March 6-7, 2023.

Talk on Sara aur Amrita on the literary collaboration of Sara Shagufta and Amrita Pritam by Rajkamal Publications during weeklong Kitab Utsav at Kala Bhawan, Chandigarh, on February 12, 2023.

FACULTY OF AYURVEDIC AND UNANI MEDICINE

ALL INDIA INSTITUTE OF AYURVEDA

Major Activities and Achievements:

The First Ever All India Institute of Ayurveda (AIIA), set up along the lines of AIIMS, was dedicated to the Nation by the Honorable Prime Minister, Shri Narendra Modi on 2nd Ayurveda Day on 17th October, 2017 at New Delhi. AIIA has also been awarded with NABH Accreditation, therefore becoming the first Ayurveda Hospital in Public Sector to be conferred with NABH accreditation in July, 2017, indicating the quality patient services it is rendering. AIIA is a pioneer institute utilizing innovative tools & technology and modern medicine for scientific validation of fundamental principles and for undertaking R&D, quality control & standardization and safety evaluation of Ayurveda medicines. Interdisciplinary

The establishing stones of AIIA are also in line with The Triple Billion targets of the World Health Organization (WHO), an ambitious initiative to improve the health of billions by 2023. All three aspects of the targets - universal health coverage, addressing health emergencies, and maintaining better health and well-being - are being addressed by AIIA through its all-inclusive healthcare services.

Honours/Distinctions

Celebrating 8th Ayurveda Day, Prof.(Dr) Tanuja Nesari, Director AIIA was awarded Life Time Achievement Award by AIASPGA (All India Ayurveda Specialist PG Association) for her contribution to Ayurveda..

Dr. Prashant Gupta was awarded Dr. P. D. Sethi Memorial Annual National Awards 2022 best research paper on application of TLC/ HPTLC in Pharma, Herbal & Other Chemical Analysis (Prize declared in Nov 2023).

Publications

Buchade, T. D., Pandey, M., Kadam, S.D. (2024). Safety And Efficacy Of Langali (Gloriosa Superba): A Potential Herbal Drug For Induction Of Labour - A Review. *Journal of Population Therapeutics and Clinical Pharmacology*, 31(2), 2205–2223

Journal published by College:

Journal of Ayurveda Case Reports, Edited by Prof. Tanuja Manoj Nesari, Quarterly

Research project:

ICMR, October 2021, “Clinical validation of synergistic effect of Vardhamana Pippali Rasayana along with conventional treatment after unraveling its complex molecular mechanism of action in Breast cancer: From Experimental model to Clinical trial”, 1.5 crore.

CCRAS, Ongoing, Validation and Reliability Testing of Ayurveda Diagnostic Methods, 1.5 crore.

NMPB Ministry of AYUSH, Ongoing (3 years), Development of RRDR for Trans Ganga Plain Region, 5 crores.

Ministry of Ayush, Ongoing (3 yrs.), Community based Ayurveda Intervention for Promotion of physical & mental health in elderly population of Faridabad district, Haryana State (PHI Project), 1.5 crore.

Ministry of Ayush, Ongoing (3 yrs.), Promotion of Knowledge, attitude and practices and mental health status (Anxiety, Stress and Depression) among Police personnel through Ayurvedic Intervention (PHI Project), 1.5 crore.

Seminars Organized

International Training Program of REAA, Germany on Ayurveda diet and Phototherapy, 4th-6th March 2024 Organized by All India Institute of Ayurveda, New Delhi.

An International Webinar ‘India- Germany- Latin America’ on “Ayurveda and Mental Health” was organised by All India institute of Ayurveda, New Delhi in association with Rosenberg Academy of Ayurveda (REAA), Germany on 20th October 2022 starting 5:30 PM on the occasion of Ayurveda Day Celebrations 2022.

An International Webinar was organised by MoU partner CABSIN, Brazil on 23rd Oct 2022, coordinated by Dr. Paula Martins, Ayurveda Committee, CABSIN in which various renowned speakers from CABSIN delivered their lectures and shared experiences.

An International Webinar was organised on 26th October 2022 by AIIA in association with National Institute of Advanced Industrial Science and Technology (AIST), Japan (CAFÉ-PIKNIK Series 80) on topic “Merger of Teachings & Technologies”.

An International Webinar was organised by AIIA in association with NICM, Health Research Institute, WSU, Australia and Australasian Association of Ayurveda on 5 Nov 2022, Saturday on “Integrative Oncology”.

Seminar/Conference Presentations (National/International)

Prof. Yogesh R Badwe, Professor, AIIA, New Delhi, “Management of Chronic Wound and Sandhana Karma”, SHALYACON-2023, 15-07-2023.

Dr. V.D. Mahanta, Asso. Professor, AIIA, New Delhi, “Concepts of Sports Injuries and its management through Ayurveda”, SHALYACON-2023, 15-07-2023.

National/International MoUs Signed

National:

MoU between AIIA & Amrita Vishwa Vidyapeetham

MoU between AIIA & Sodexo India Services Private Limited

MoU between AIIA & JIVANTI, Welfare and Charitable Turst

MoU between AIIA & NIPER (National Institute of Pharmaceutical Education and Research), SAS Nagar, Mohali

MoU between AIIA & LBSNAA

MoU between AIIA & Kedavla Forest Division Statue of Unity Area Development and Tourism Governance Authority (SOUADTGA)

MoU between AIIA & Hindustan Salts Limited

MoU between AIIA & Vaidyaratnam P S Varier's Arya Vaidya Shala, Centre for Medical Plants Reserch, Kerala

MoU between AIIA & Heartfulness Education Trust (HET)

MoU between AIIA & Ministry of Health and Family Welfare, Govt of India (NIHFW)

MoU between AIIA & National Institute of Pharmaceutical Education and Research (NIPER), SAS Nagar

MoU between AIIA & Public Health Foundation along with Indian Institute of Public Health (PHFI-IIPH) and Alive & Thrive, New Delhi

Nutri-Hub, TBISC Indian Institute of Millets Research (IIMR) Hyderabad

MoU between AIIA & Translational Health Sciences and Technology Institute (THISTI), Faridabad

MoU between AIIA & Employees State Insurance Corporation (ESIC) Medical College & Hospital under Ministry of Labour and Employment, Govt. of India

MoU between AIIA & Supreme Court of India, Tilak Marg, New Delhi

MoU between AIIA & NIA, Jaipur & PHFI IIPH Delhi

MoU between AIIA & Tilak Maharashtra Vidyapeeth, Pune

International:

Yoga Brahma Vidyalaya, Brazil. For establishment of Academic collaboration in Ayurveda

London School Of Hygiene & Tropical Medicine (LSHTM), Royal Charter in the United Kingdom, Keppel Street, London, WC1E 7HT

French Reunion Island, La Reunion

Other Inter-Institutional Collaboration :

The Department of Swasthvritta organised a 3-days workshop in collaboration of NIFTEM regarding “Nutrient Analysis of Food Articles.

Students under Exchange Programme

NIFTEM, Dabur Foundation, IGIB

Placement Details

Number and percentage of students placed : 100%

Extension and Outreach Activities

Camp 7th January2023, Sarita Vihar New Delhi, Samudayak Bhawan

Camp 22nd January 2023, Ballabhgarh Faridabad, Samudayak Bhawan
Camp on 13th to 15th February, 2023 at Lodi Road Faridabad, Sec ,55
Camp 17th February, 2023 Faridabad, Sec ,55
Camp 22nd February, 2023 Faridabad Ballabhgarh Sec ,3
Camp 28th February, 2023 Faridabad Ballabhgarh
Camp 04.03.2023 Pocket G, Sarita Vihar
Camp 12.03.2023 Medical Checkup at Ballabhgarh
Camp 14.03.2023 Medical Checkup at Gurugram

Number of M.Phil./Ph.D. Degrees Awarded

MD/MS.: 74

Faculty Strength: 51

AYURVEDIC & UNANI TIBIA COLLEGE & HOSPITAL

Major Activities and Achievements

The College received first award in KAYAKALP (200 bedded categories). Certificate courses PANCHKARMA TECHNICIAN & PANCHKARMA ASSISTANT has been started from June 2023 under HSSC. Ayurveda Day Celebration has been organized for one week as per NCISM Guidelines. On the occasion of Unani Day Celebration, an academic lecture has been organized on 10/02/2024.

Honours/Distinctions

ISSN International best research award was received by Dr. Sujata Rajan for Article "The Soothing Effects of Shirodhara: Alleviating Stress through an Ancient Ayurvedic Technique".

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Author- Dr Nitin Jindal, Dr Manoj Shamkuwar, Dr Bhawna Bhardwaj

Publications

Scopus

Zubair, M., (2023) Ilaj bit tadbeer (regimental therapy): a core mode of prevention and management of pain. *Journal of Research in Unani Medicine* , 9 (1)

Rajan., S., Munjal., M., Shamkuwar., M., Jindal., N., Tanwar, A. K., Manchanda., R.K. (2023) Retrospective Analysis of Ayurvedic dietary modalities in Improving mental wellbeing & satisfaction with food-related life in COVID-19 Patients. *Annals of Ayurvedic Medicine*, 12 (3) 260-271

UGC

Varshney., S., Kunwar., M., Bhumika (2023) Role of Shushrutaokta Veertarvadi Gana in Mutravaha Srotas Dushti. *TIJER* 10 (10), a787-a792

Varshney., S., Rathore, R., (2023) Exploring the therapeutic potential of Panchtikta Churna: An Ayurvedic Formulations. *JETIR* 10 (7), a727-a741

Web of Science

Varshney., S., Rathore, R., Dahiya., L (2023) Ancient grains, Modern Marvels: Embracing Millets in Ayurvedic Healing for Optimal Health. *International Ayurvedic Medical Journal* 11, 2764-2775

Rajan., S., Deshmukh., P. U., Pawar., J., Shamkuwar., M., Kaur., J., Jakhar N., (2023) The Soothing Effects of Shirodhara: Alleviating Stress through an Ancient Ayurvedic Technique. *IRJAY* 6 (8) 96-100

Raza., A., (2023) Obesity- a lifestyle disorder Its impact on women's health and its management. *International journal of development research* 13(6), 63034-63037

Raza., A., (2023) Pregnancy and specific disorder with Unani prospectors. *IJCS* 13(2)

Manisha., Bhatia., B., Diwakar., Rohit., (2023) Effect of shodhana karma (vamana and virechana) in pre-diabetes- A Review Article. *World Journal of Pharmaceutical Research* 13(1), 313-319

Research Projects

CCRAS, Prashant Rasale, Shyamendra Sharma, Review of efficacy and recurrence of disease after ksharsutra in the patients of fistula in ano in present era as compared to conventional method (fistulectomy), 50,000/-

Seminar/Conference Presentations

1. National seminar on current trends in medical sciences organized by Arogya Bharti (Meerut Prant) on 24th September 23 on Bhang (Cannabis Sativa Linn.) Panacea or Scourge in India by Dr. Shalini Varshney

Faculty Strength

Associate Professor:	32
Assistant Professor:	31
Ad-hoc:	04
Guest:	07

FACULTY OF COMMERCE & BUSINESS

COMMERCE

Major Activities and Achievements

The Department of Commerce is renowned for its excellence in commerce education in India. It is particularly recognized for its research endeavors, esteemed faculty, and motivated student body. The department takes pride in its distinguished alumni who are making significant contributions in various fields globally. Its vision revolves around fostering a culture of learning. Besides academic achievements, the institution actively involves its students in extracurricular activities. During the academic year 2023-2024, the department continued its commitment to academia and research through regular classroom teaching and publications in esteemed national and international journals by its faculty members.

The Department offers M. Com., MBA (IB), MBA (HRD), MBA (BA), and PhD programs. In the academic year 2022-23, the department achieved the following milestones:

Launch of MBA (Business Analytics) from the academic session 2023-25.

UGCF 2022 for BA Commerce-based courses.

G20-related programs.

Honours/Distinctions

Faculty

Ajay Kumar Singh- Research Publication Award 2023 -Institute of Eminence, University of Delhi

Madan Lal- Research Publication Award 2023 -Institute of Eminence, University of Delhi

Publications

Scopus

Singh, S. V. P., & Shrotryia, V. K. (2024). Economic Growth and Human Well-being in India: Evidence through adjusted GDP measure. *Social Indicators Research*, 171(3), 987-1018.

Dhingra, S. & Shukla, A. (2024). Growing Private Equity Investment in the Indian NBFC Sector : Analyzing Risks. *Economic and Political Weekly*, 58(18).

Goel, P., & Parayitam, S. (2024). Antecedents of behavioral intention and use of shared accommodation: Gender as a moderator. *Tourism and hospitality management*, 30(1), 105-118.

Jain, N., Gupta, V., Temperini, V., Meissner, D., & D'angelo, E. (2024). Human machine interactions: from past to future-a systematic literature review. *Journal of Management History*, 30(2), 263-302.

Laheri, V. K., Lim, W. M., Arya, P. K., & Kumar, S. (2024). A multidimensional lens of environmental consciousness: towards an environmentally conscious theory of planned behavior. *Journal of Consumer Marketing*, 41(3), 281-297.

Singh, A. K., & Meena, M. K. (2024). Online teaching in Indian higher education institutions during the pandemic time. *Education and Information Technologies*, 29(4), 4107-4157.

Singh, S. V. P., & Shrotryia, V. K. (2024). From Inception to Alternative: A Case of GDP. *Economic Alternatives*, (1), 59-85.

Kanojia, S., & Bhatia, B. S. (2023). Signaling Effect of Dividend on Firm's Future Performance: A Study of Select Emerging Economies. *Journal of Emerging Market Finance*, 22(4), 409-436.

Kanojia, S., Lakshmi, V., Sachdeva, S., & Verma, M. (2023). Tensegrity of Internal Control System, Board's Ability and Corporate Governance Practices. *Global Business Review*, 09721509231186251.

Singh, A. K., Gill, K., & Kalra, S. (2023). Evaluation of nexus between short-run return measures of IPOs in India. *Indian Journal of Finance*, 17(4), 8-26.

Singh, A. K., Shrivastav, R. K., & Jain, S. (2024). Trading Behaviour Exhibited by Institutional Investors During Calm and Volatile Periods in the Indian Scenario. *The Indian Economic Journal*, 72(1), 181-198.

Sardana, V., Mohapatra, A. K., Singh, A. K., & Singhania, S. (2023). Unveiling insurance and risk management insights through bibliometric and cluster analysis. *Prabandhan: Indian Journal of Management*, 16(11), 8-26.

Singh, A. K., Gill, K., & Kalra, S. (2023). Evaluation of nexus between short-run return measures of IPOs in India. *Indian Journal of Finance*, 17(4), 8-26.

Sardana, V., Mohapatra, A. K., Singh, A. K., & Singhania, S. (2023). Unveiling Insurance and Risk Management Insights Through Bibliometric and Cluster Analysis. *Prabandhan Indian Journal of Management*, 16(11), 8.

Tiwari, S., Sapra, R., & Ray, S. (2023). Cryptocurrency Market Contagion: Market Uncertainty, Complexity, And Dynamic Portfolios. *Journal of Namibian Studies: History Politics Culture*, 35, 5295-5318.

Kaur, M., Singh, R., Singh, M., & Singh, K. (2023). Can health consciousness drive purchase intention toward packaged immunity boosting food products?. *Journal of Foodservice Business Research*, 1-22.

Kaur, S. (2023). Impact of nature on the mental health and well-being of the ICU survivors: an interpretative phenomenological analysis. *Journal of Public Mental Health*, 22(4), 245-256.

Bala, K., Batheja, A., & Aggarwal, S. (2023). An Empirical Study of the Moderating Impact of Peer Group on Key Business Antecedents and Digital Games Performance of the Indian Economy. *Thailand and The World Economy*, 41(1), 126-147.

Dwivedi, Y. K., Sharma, A., Rana, N. P., Giannakis, M., Goel, P., & Dutot, V. (2023). Evolution of artificial intelligence research in Technological Forecasting and Social Change: Research topics, trends, and future directions. *Technological Forecasting and Social Change*, 192, 122579.

Gupta, S., Singh, S., Garg, A., & Goel, P. (2023). Examining adoption drivers of payments bank using fuzzy analytic hierarchy process approach. *FIIIB Business Review*, 23197145231167633.

UGC

Singh, A. K., & Singh, S. K. (2023). Massive Open Online Courses (MOOCs): A Bibliometric Analysis. *Delhi Business Review*, 24(1), 35-47.

Singh, S. V. P., & Shrotryia, V. K. (2023). Income Inequality and Human Wellbeing: An Empirical Analysis Using Atkinson Measure of Inequality. *Emerging Economy Studies*, 8(2), 116-128.

Kanojia, S., & Malhotra, D. (2023). Impact of Behavioural Biases on Investment Performance: A Comparative Analysis of Investors from India, USA and UK. *Journal of Business Thought*, 13–33.

Kumar Singh, P., & Singh, K. (2023). Financial Inclusion-a Front Wheel for Womens Empowerment. *International Journal of Advanced Research*, 11(05), 1586-1598.

Singh, K. (2023). Digital Financial Inclusion and Bank Competition-An Impact on Bank Stability in India. *Mudra: Journal of Finance and Accounting*, 10(2), 38-54.

Web of Science

Goel, P., Garg, A., Sharma, A., & Rana, N. P. (2023). Impact of sensory perceptions on the urge to buy impulsively. *Journal of Computer Information Systems*, 1-17.

Books/Chapter in Books

Senior Prof. Ajay Kumar Singh , (2023) , Panch Kosha: An Exploration of Traditional Indian Knowledge on the Five Layers of Human Existence , *Delhi* , VBUSS Monograph Series 4 Funded by IKS Division, Ministry of Education , 978-93-88465-90-8 , 55

Senior Prof. Ajay Kumar Singh , (2023) , Impact Assessment of Direct Benefit Transfer (DBT) Schemes towards Financial Inclusion , *India* , National Book Trust , 978-93-5743-495-9 , 277-316

Senior Prof. Ajay Kumar Singh , (2024) , Ramatva aur naitikta: Adhunik samay ke paridrishya me , *India* , Yash Publications & Bharatiya Shikshan Mandal , 978-93-85689-68-0 , 87-96

Hamendra Kumar Dangi , (2023) , Harnessing Ancient Wisdom: Strengthening R&D Capabilities for Atma Nirbhar Bharat , *India* , Eureka Publications. , 978 81 959897 2 0 , 160-186

VK Shrotryia , (2023) , Money makes us happy or it doesn't , *IIT Kharagpur* . , Springer Nature Singapore. , 9789819934935 , 3-22

Amit Kumar Singh and Dr. Rohit Kumar Shrivastav , (2023) , Finance for Everyone , *Delhi, India* , Taxmann Publications , 978-9357781442 , 1-156

Kirti Singh , (2024) , “Role of Think Tanks in Advancing Innovative Practices in the Public Sector , *MacMillan Publisher, India* , MacMillan Publisher , 978-93-5666-790-7 , 107-117

Ajay Kumar Singh , (2023) , Panch Kosha: An Exploration of Traditional Indian Knowledge on the Five Layers of Human Existence , *A. K. Publications, Delhi Delhi* , A. K. Publications, Delhi , 978-93-88465-90-8 , 1-147

VK Shrotryia , (2024) , ग्येल -खब, (राष्ट्र, नागरिक, और नागरिक-शिक्षा पर कुछ दृष्टिकोण) , *Bhutan* , भारत भूटान संघ , 978-99936-952-4-0 , 112

Lovleen Gupta, Shubham Singhania and Rohit Kumar Shrivastav , (2023) , Status of Gender Equality in the Northeastern States: A Pathway Towards Achievement of Sustainable Development Goal. In: Anand, S., Das, M., Bhattacharyya, R., Singh, R.B. (eds) Sustainable Development Goals in Northeast India , *Singapore* , Springer , 978-981-19-6478-7 , 257 -274

Journals

Kavita Sharma,(2022-23) ,The Journal of Commerce and Business bearing , *JCBS*, 2322- 0767 , 1,2 , 10 , 1-72

Research Projects

ICSSR, Ajay Kumar Singh, Impact of Direct Benefit Transfer Scheme of Government of India on Financial Inclusion: An Assessment, Rs.14.99 Lakhs + Overhead charges of Rs.1 Lakh

Institution of Eminence (University of Delhi), VK Shrotryia, Conception of Aanand vis-a-vis Happiness in India, Rs. 3,00,000

Institution of Eminence (University of Delhi), Amit Kumar Singh, Identifying the Relationship between Renewable and Non-Renewable Energy with Sustainability - An Empirical Evaluation, Rs. 2,00,000

Institution of Eminence (University of Delhi), R. K. Singh, Knowledge management using artificial intelligence in higher-education , Rs. 3,00,000

Seminars/ Conferences Organized

Prof. Rajendra P. Srivastava PhD (Physics) and PhD, (Accounting) Professor Emeritus, Ex EY Professor of AIS, The University of Kansas and CEO, Prof. Justin Paul University of Puerto Rico, San Juan, PR, USA, Visiting Professor of Henley Business School, University of Reading, UK. Dr. T.G. Sitharam, Prof. Manish R. Joshi Chairman, All India Council for Technical Education (AICTE), New Delhi since December 2022, director of Indian Institute of Technology Guwahati, Assam (July 2019 to December, 2022), Prof. Ravinedr Rena DUTBusiness School , Faculty (FMS), Durban University of Technology, Republic of South Africa, Prof. Suneel Maheshwari, M.M.S., M.Acc, Ph.D., Professor at Indiana University of Pennsylvania, Delmont, Pennsylvania, Prof. Manish R. Joshi, Secretary, UGC. , Conference, Department of Commerce, Faculty of Commerce, University of Delhi in collaboration with O P Jindal University, Sonipat., Haryana, 74th All India Commerce Conference (AICC) of Indian Commerce Association theme: One Earth, One Family, One Future, 15-12-2023

Prof. Rajendra P. Srivastava PPhD (Physics) and PhD, (Accounting) Professor Emeritus, Ex EY Professor of AIS, The University of Kansas and CEO, Prof. Justin Paul University of Puerto Rico, San Juan, PR, USA, Visiting Professor of Henley Business School, University of Reading, UK. Prof. Ravinder Rena DUT Business School , Faculty (FMS), Durban University of Technology, Republic of South Africa, Prof. Suneel Maheshwari, M.M.S., M.Acc, Ph.D., Professor at Indiana University of Pennsylvania, Delmont, Pennsylvania , Conference, the Department of Commerce, Faculty of Commerce & Business, Delhi School of Economics, University of Delhi , 9th Annual International Commerce Conference-2024, Vikshit Bharat 2024, 15-05-2024

Dr. Purushottam Kumar Arya, Conference, Acharya Narendra Dev College in Collaboration with Department of Commerce, Faculty of Commerce & Business, Delhi School of Economics, University of Delhi, One day National Conference on “One Earth, One Family, One Future, 03-04-2023

Mr. Rajesh Dangeti, Regional Director, SEBI Northern Regional Office, Mr. Surya Kant Sharma, Senior Consultant, AMFI (Former DGM, SEBI), One-day seminar , Association of Mutual Funds in India (AMFI), “Financial Literacy: Prosperity and Wealth, 27-04-2023

Prof. Balaram pani, dean of Colleges, university of Delhi, Dr C S Mohapatra, IEPF Chair Professor, Dr Sanjay Bahl, Director General, CERT-IN, MEITY, GoI ,Speaker NCAER, Lt. Col. Tushar Anand, GM, IEPFA, Ministry of Corporate Affairs, Speaker, Ms Suchitra Maurya, Chief General Manager, and Ombudsman RBI, Speaker, Shri Sumit Aggarwal, AGM Awareness, IEPFA Speaker and Moderator, , Annual Conference, Investor Education and Protection Fund Authority, National Council of Applied Economic Research, Investor Education and Protection Strategies in India: Challenges of Modern Times , 19-03-2023

Dr. R. K. Tailor, Associate Professor, School of Business and Commerce, Manipal University Jaipur, Department of Commerce, Faculty of Commerce, University of Delhi in collaboration with D.D.U. College, University of Delhi, 5-Days Short Term Programme on Robotics Process Automation in Business, 25-07-2023

Prof. Glen T. Martin, Emeritus Professor of Philosophy at Radford University in Virginia, USA and Ms. Eugenia Almand, Honorary Juris Doctor from Institute on World Problems (Earth Constitution Institute), Prof. Glen T. Martin, Emeritus Professor of Philosophy at Radford University in Virginia, USA and Ms. Eugenia Almand, Honorary Juris Doctor from Institute on World Problems (Earth Constitution Institute), Department of Commerce, Faculty of Commerce, University of Delhi in collaboration with Kamala Nehru College, University of Delhi, 5-Days Short Term Programme on World Law Prospects: Emerging World Law and the G20, 30-06-2023

Prof. Ernest Cadotte and Dr. Bindu Agrawal, Prof. Ernest Cadotte, Emeritus Professor of Innovative Learning at the University of Tennessee and Dr. Bindu Agrawal, Master Simulation Coach, Department of Commerce, Faculty of Commerce, University of Delhi in collaboration with D.D.U. College, University of Delhi, Faculty Development Programme on 'Business Simulation : A Tool for Effective Teaching Learning Process', 02-12-2023

Seminar/Conference Presentations (National / International)

International/ National

Amit Kumar Singh, 2024-03-2, presented a paper titled “Role of women in achieving environmental sustainability- A case of BRICS nations” in 7th Biennial International conference on the theme Vision India@2047: Global leader in economic growth, sustainability, and decarbonization organized by Sri Guru Gobind Singh College of Commerce, University of Delhi

Amit Kumar Singh, 2024-01-19, presented a paper titled “Corporate Governance in the Era of Artificial Intelligence” in the International conference titled Sustainable Development: A Road towards lifelong learning organized by Janki Devi Memorial College, University of Delhi in collaboration with Department of Adult, Continuing Education & Extension Faculty of Social Sciences, University of Delhi.

Amit Kumar Singh, 2023-09-16, presented a paper titled “The Saga of the Unexplored Economic Complexity and Environmental Efficiency” in International conference on Corporate Governance and Sustainable Development: Reflecting New Perspectives in Emerging Economies and Around the Globe organized by Global Research Foundation for Corporate Governance.

Amit Kumar Singh, 2023-09-16, presented a paper titled “Are Demographics and Investor Sophistication influence Investment Behaviour in IPO Market” in the International conference on Corporate Governance

and Sustainable Development: Reflecting New Perspectives in Emerging Economies and Around the Globe organized by Global Research Foundation for Corporate Governance.

Amit Kumar Singh and Dr. Rohit Kumar Shrivastav, 2023-08-24, presented a paper titled “Trends in CSR Spending in India” in 34th AIMS Annual Management Education Convention 2023 organised by AIMS.

Amit Kumar Singh and Dr. Rohit Kumar Shrivastav, 2024-03-14, presented a paper titled “The impact of multiple factors on investors attitudes towards crowdfunding in India: A study on the effectiveness of crowdfunding in start-ups” in 9th AICC on Viksit Bharat In Amrit Kaal organized by Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with Deen Dayal Upadhyaya College, University of Delhi

Amit Kumar Singh, 2023-09-16, presented a paper titled “A systematic literature review of Indian and International IPOs” in 3rd International conference on Corporate Governance and Sustainable Development: Reflecting New Perspectives in Emerging Economies and Around the Globe organized by Global Research Foundation for Corporate Governance.

Amit Kumar Singh, 2023-06-30, presented a paper titled “Circular Economy Practices: An Empirical Study of Renewable Energy In India” in the International Conference on Multidisciplinary Concepts in Management organized by GL Bajaj Institute of Technology and Management in association with California State University, San Bernaridino, USA

Amit Kumar Singh, 2023-07-01, presented a paper titled “Gender Diversity on Boards and Sustainability: A Bibliometric Review” in International Conference on Multidisciplinary Concepts in Management organized by GL Bajaj Institute of Technology and Management in association with California State University, San Bernaridino, USA.

R. K. Singh, 2024-03-15, has been a resource person at Two-Week Refresher Course in Commerce & Management, organized by Department of Commerce, in collaboration with Malaviya Mission Teacher Training Centre (MMTTC), University of Jammu, on ‘Ways to Boost Student Engagement in Online/Virtual Classrooms’.

R. K. Singh, 2024-02-05, has been a Keynote Speaker for a Special Lecture on Viksit Bharat @ 2047, organized by Pandit Madan Mohan Malaviya School of Commerce & Management Sciences & School of Education, Mahatma Gandhi Central University, Motahari, Bihar.

R.K. Singh, 2023-11-08, has been a Resource person in One-day orientation programme on ‘Carrier opportunities in Commerce, organized by Department of Commerce, Chaudhary Ranbir Singh University, Jind, Haryana.

R.K. Singh, 2023-07-13, Resource person, at Faculty development programme, organized by School of Arts and Science at Sri Manakula Vinayagar Engineering College, Pondicherry.

R.K. Singh, 2023-07-11, has been a Trainer for ‘Transactional Analysis’ at ‘Communication & Presentation Skills for the Probationers of Indian Statistical Service’, organized by Indian Institute of Public Administration, New Delhi.

R.K. Singh, 2023-06-19, Trainer for ‘Individual Development Plan’ at ‘11 th Advanced Leadership Programme for Corporate Executives: Leadership Excellence for Atma Nirbhar (LEAN) Bharat, organized by Indian Institute of Public Administration, New Delhi.

R.K. Singh, 2023-05-27, has been a Key resource person at Two-Day National Seminar on ‘India@765: Ancient Indian Wisdom and Innovative Business Practices’ organized by University School of Management Studies, Guru Gobind Singh Indraprastha University, Dwarka Campus, New Delhi.

R.K. Singh, 2023-04-07, has been a Keynote speaker at the Inaugural session, 1 st International Conference on Computational Sciences and Management (ICCSM-2023), organized by Geeta University, Panipat, Haryana.

V. K Shrotryia, 2023-11-29, has given a Keynote address in Plenary session on Navigating the changing landscape of remote & Hybrid work environment, National Conference on Future of Work: Adapting to a Changing Landscape, University of Jammu.

V. K Shrotryia, 2023- 11-03, has given a Keynote address on “Happiness and Well-Being” at Jagat Guru Nanak Dev Punjab State Open University, Patiala, Punjab

V. K Shrotryia, 2023-10-26, has given a keynote address on “Teachers and Teaching Process in the changing times” in the International Conference on Issues and Challenges for Higher Education in India, Mizoram University, Aizawl.

V. K Shrotryia, 2023-10-16, has given a keynote address on Market, Entrepreneurship, and Happiness in a Refresher Course on Entrepreneurship Development (Hybrid Mode), UGC organized by HRDC Mizoram University, Aizawl, Mizoram.

V. K Shrotryia, 2023-10-16, has given a keynote address on “Trade, Tourism, and Happiness”, in a Refresher Course on Tourism (4-17 Oct 2023: Hybrid Mode), UGC organized by HRDC NEHU Shillong, Meghalaya.

V. K Shrotryia, 2023-09-29, has given a keynote address on “Happiness and Public Policy” in a seminar organized by Birla Institute of Management Technology, Greater Noida, UP.

V. K Shrotryia, 2023-09-22, has given a keynote address on “Market Capitalism and Happiness”, in a seminar organized by Department of Business Administration, Assam University, Silchar, Assam.

V. K Shrotryia, 2023-08-13, has given a keynote address on “Organizational Happiness – Concept and Practice” in a seminar organized by Department of Management, Tribhuvan University, Kathmandu, Nepal,

V. K Shrotryia, 2023-08-11, has given a keynote address on “Being Happy and Managing Stress” in the VUCA World in a seminar organized by Indian Accounting Association, Motihari Chapter, Bihar

V. K Shrotryia, 2023-06-17, has given a keynote address on “Philosophy of Behavioural Finance and its future – as I see it” in 2nd International Conference on Behavioural Finance organized by Department of Management, Indian Institute of Information Technology (IIIT), Prayagraj, UP.

V. K Shrotryia, 2023-05-19, has given a keynote address on “Learning, Thinking and Happiness – Challenges of time” in a seminar organized by Department of Business Administration, School of Management Studies, Tezpur University, Assam.

Kirti Singh, 2024-03-15, presented a paper titled “The effects of budget announcements on the volatility and herding in Equity Market: An Indian Evidence” in National conference of Financial Literacy: Demystifying Investment Options organized by Gargi College, University of Delhi.

Kirti Singh, 2024-03-14, presented a paper titled “Sustainable Business Models in Indian Sugar Industry” in 9th Annual International Commerce Conference on ‘Viksit Bharat in Amrit Kaal’ organized by the

Department of Commerce, Faculty of Commerce and Business, Delhi School of Economics, University of Delhi, in collaboration with Deen Dayal Upadhyaya College

Kirti Singh, 2023-12-14, presented a paper titled “Perspective of tourists towards sustainable tourism: A study from Agra city” in 74th All India Commerce Conference on “One Earth, One Family, One Future” organized by Department of Commerce, Faculty of Commerce, University of Delhi in collaboration with O P Jindal University, Sonapat, Haryana.

Rohit Kumar Shrivastav, 2024-03-15, presented a paper titled “What Shapes the Financial Behaviour of Rural Households? A Systematic Review” in National Conference on Financial Literacy: Demystifying Investment Options organized by Gargi College, University of Delhi.

Rohit Kumar Shrivastav, 2024-03-15, presented a paper titled “Bibliometric Analysis of Financial Market Research Across BRICS Nations” in National Conference on Financial Literacy: Demystifying Investment Options organized by Gargi College, University of Delhi.

Rohit Kumar Shrivastav, 2023-12-14, presented a paper titled “A Bibliometric Analysis Of The Impact Of News On The Stock Market” in 74th All India Commerce Conference on “One Earth, One Family, One Future” organized by Department of Commerce, Faculty of Commerce, University of Delhi in collaboration with O P Jindal University, Sonapat, Haryana.

Rohit Kumar Shrivastav, 2023-06-30, presented a paper titled “Corporate Social Responsibility Spending in India” in International Conference on Multidisciplinary Concepts in Management organized by G L Bajaj Institute of Technology & Management, Greater Noida in association with California State University, San Bernaridino, USA.

Kiran Bala, 2024-03-12, presented a paper titled “An Empirical Study of The Impact of Advertisement in Medical Journals on The Aspects of Medicine Prescription Behaviour of Doctors In India With Opinion Leaders As A Moderator” in International conference on Re-visiting Business, Education and Communication with an emphasis on Sustainable Development.

Kiran Bala, 2024-03-13, presented a paper titled “Exploration Of The Factors Affecting Edu-Tourism Satisfaction In Metropolitan Indian Context With Opinion Leaders As Mediator Between Tourists’ Satisfaction And Tourists” in International conference on Re-visiting Business, Education and Communication with an emphasis on Sustainable Development.

Supreet Kaur, 2023-11-29, presented a paper titled “How organic food products promote sustainable entrepreneurship: insights from interpretative phenomenological perspective” in 6th International Conference of MESD organized by Department of Commerce, University of Delhi.

Supreet Kaur, 2023-12-14, presented a paper titled “The Great Indian Organic Market: Insights from primary investigation” in 74th All India Commerce Conference on “One Earth, One Family, One Future” organized by Department of Commerce, Faculty of Commerce, University of Delhi in collaboration with O P Jindal University, Sonapat, Haryana

Jagdish Raj Saini, 2023-04-12, delivered a talk titled “Analysis of NEP – 2020” in national seminar organised by IQAC, Minerva College of Education, Indora, Kangra, Himachal Pradesh.

Jagdish Raj Saini, 2023-11-29, presented a paper titled “Digitalization of financial services: Has technology unfolded a promising future for rural India” in 6th International Conference of Multinational Enterprise and

Sustainable Development (MESD'23) Association organized by Department of Commerce, University of Delhi.

Jagdish Raj Saini, 2023-12-14, presented a paper titled “Leveraging Financial Inclusion - The Role of Quality and Availability Factors” in 74th All India Commerce Conference on “One Earth, One Family, One Future organized by Department of Commerce, Faculty of Commerce, University of Delhi in collaboration with O P Jindal University, Sonapat, Haryana.

Sumita Sinku, 2024-03-14, presented a paper titled “Merger and Acquisitions In Indian Banking Sector: An Analytical Study Of Physical Performance” in 9th Annual International Commerce Conference on 'Viksit Bharat in Amrit Kaal' organized by Department of Commerce, Faculty of Commerce and Business, Delhi School of Economics, University of Delhi, in collaboration with Deen Dayal Upadhyaya College

Pratibha Maurya, 2024-02-09, presented a paper titled “Financial Fraud Detection using Text Mining in India: An Analysis” in National Seminar on Cyber Security and Indian Society: Concept, Function and Betterment organized by Department of Sociology, Hindu College, Moradabad.

Pratibha Maurya, 2023-12-20, presented a paper titled “Indian Women Entrepreneurial Ecosystem: A Thematic Groundwork” in National Conference on "The Power of Entrepreneurial Education: Developing Youth Mindset of Innovation and Economic Growth" organized by State Council of Education and Research and Training, Delhi

National/International MoUs Signed: 2

Other Inter-Institutional Collaboration: 22

Placement Details : 203

Extension and Outreach Activities

Soft Skills Training was conducted by Department of Commerce, University of Delhi in collaboration with Eminent speakers, Corporate professionals, success Scholar. Guest lectures from eminent personalities in the industry were organized.

The department actively engaged in various events and activities throughout the year, including **Synergy** - B-School competition fest, Ted X, Erudition - The annual business conclave, Industrial Visits (Dry Port Visit), Symposia, Skill-building workshops and courses (such as Business analytics workshop, TDC workshop, KPMG Lean Six Sigma Green Belt Certification), Regular intra-department sports activities, Corporate engagements, and multiple guest lectures.

The **Rotaract Club** of DOC DSE, conducted a donation drive to aid individuals displaced by strife in Manipur, gathering clothing, medications, sanitary napkins, and funds, benefiting over 10,000 people. "Letter of Hopes," aimed to uplift spirits among the displaced with heartfelt messages. The club celebrated diversity with a Traditional Day, showcasing cultural attire and folk dances. During Independence Day week, Project Aazadi organized drives addressing hunger, illiteracy, and clothing needs. Additionally, the club organized a cancer awareness session, focusing on breast and cervical cancer, in collaboration with Project Power of Ponytails and Tanisa Foundation. Various other initiatives included breast cancer

awareness, good touch-bad touch sessions, women empowerment sessions, sanitary pad and stationery donations, emphasizing health, education, and community well-being.

Ecasports- The students of Department of Commerce, University of Delhi took part in sports competitions at prestigious institutions like IIM Rohtak, IMI Delhi, IIFT Delhi and IIT Delhi.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 02

Faculty Strength

Total: 06 (Six) - (Professor – 03, Associate Professor – 01 and Assistant Professor – 02)

Other Significant Information

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board-

Ajay Kumar Singh - Editor in Chief, Indian Journal of Commerce and Business Studies; Editor in Chief, Delhi Business Review; Editorial Board Member, Purusharth

Amit Kumar Singh - Member of Editorial Board of Indian Journal of Finance: Scopus and ABDC listed Journal.

Amit Kumar Singh - Member of Editorial Board of Orissa Journal of Commerce (UGC Care listed Journal).

Amit Kumar Singh - Member of Editorial Board of Indian Journal of Research in Capital Market.

Sunaina Kanojia - Editor, Corporate Governance Insights

Rohit Kumar Shrivastav- Assistant Editor - Journal of Commerce and Business Studies published by the Department of Commerce, University of Delhi

Rajdeep Singh- Associate Editor of International Journal of Innovation and Multidisciplinary Research (IJAMR) published by Centre for Multidisciplinary Research, Innovation and Entrepreneurship, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi

Jagdish Raj Saini - Assistant Editor, Journal of Commerce and Business Studies (JCBS), Bi-annual referred Journal of the Department of Commerce, Delhi School of Economics, University of Delhi

Manisha - Worked as an Assistant Editor to Journal of Commerce and Business Studies, Department of Commerce from June 2023- December 2023.

Pratibha Maurya- Editor, Women Empowerment: Strengths Challenges and Strategies, MKSES Publications, Lucknow, India

FACULTY OF EDUCATION

EDUCATION

Brief History

The Department of Education (CIE), University of Delhi is perhaps the first major institution of professional learning and research in Education that was established since independence. The first Prime Minister of India, Pandit Jawaharlal Nehru and his first Education Minister, Maulana Abul Kalam Azad took considerable interest in its establishment in 1947 and activities and progress in those early years. Maulana Azad visualized the function of it not merely “to turn out teachers who will be ‘model teachers’, but to evolve into a research centre for solving new educational problems of the country”. Maulana prophesized that it would grow into “a beacon light for training institutions of the country”. Over these past decades, the Department has indeed grown into a pace-setting institution in Teacher Education and Educational Research. The department has demonstrated an unwavering dedication to the ideals of its founders and has participated in numerous important education commissions and committees

Major Activities and Achievements

In the year 2023, 105 students got their B.Ed. degree, 59 students got their M.Ed. degree. Likewise, 14 Scholars were awarded the M.Phil. degree in the year and 18 scholars received their Ph.D. degrees in the University Convocation.

Our Department has celebrated Platinum Jubilee 76th Foundation Day where Professor Najma Akhtar delivered Foundation Day address and presided by Prof. Chand Kiran Saluja. One day Panel Discussion on 'NEP 2020: Re-envisioning Teacher Education' Programme was held at CIE on July 28th, 2023. The Department has been striving hard to improve the functioning of the Enabling Unit to support students with disabilities. The aim of the unit is to make students with disabilities feel at home and provide them opportunities for psychosocial well-being apart from facilitating their learning.

Publications

Books/Chapter in Books

Gandhi, H. (2024). *Ganit aur uski Shiksha*, New Delhi, Vani Publication, 978-93-5775-709-6, 188-203

Gandhi, H. (2023). *Vigyan kaksha ke vibhinn aayaam*, New Delhi, Vani Publication, 93-5775-203-9, 263-285

Gandhi, H. (2024). *Maths Mela*, Textbook for Class 3, New Delhi, NCERT, 978-93-5292-816-3, NA

Dewan, H., Gandhi, H., & Goswami, R. (2024). *Ganit aur uski Shiksha*, New Delhi, Vani Publication, 978-93-5775-709-6, NA

Kanvaria, V.K. (2024). *Paradigm shifts in education technology: A review of literature*, Delhi, Adwell Book Company, 9788195758135, 76-90

Kanvaria, V.K., & Kumar, R. (2023). *Shiksha ko badalnemein ICT upkaranon ki Bhoomika*, Nepal, Tribhuvan University, 9789937147903, 71-80

- Kanvaria, V.K.,& Kumar, S. (2023).Rashtriyashikshaneeti 2020 evamshaikshiktakniki: Shiksha ke paripekshyameinchunautiyan,*West Bengal*, Dhar Brothers, 9789359968452, 103-105
- Kanvaria, V.K.,& Kumar, S. (2024). Samaan Nagarik Samhita evamshaikshiktakniki: Mudde evamchunautiyan, *Delhi*, Nalanda Prakashan, 9788196573362, 155-162
- Kanvaria, V.K.,& Suraj, M.T. (2023). Education and HR management in the age of artificial intelligence: An overview of available tools, *New Delhi*, Bloomsbury Publishing, 9789356404717, 220-229
- Kanvaria, V.K.,& Tomar, S. (2023). Personalized learning through artificial intelligence, *Delhi*, Rachanakaar Publishing House, 9789391791735, 36-49
- Kanvaria, V.K.,& Yadav, A. (2023). Recent trends, techniques and technology in modern education system, *Tamil Nadu*, ScientificInternational Publishing House, 9789357578950, NA
- Kanvaria, V.K.,& Yadav, A. (2023). Augmented reality: Prospects for environmental science education, *Pune*, Jyotikiran Publication,9789394819269, 65-67
- Kanvaria, V.K.,& Yadav, A. (2023). Moving towards education for sustainable development 2030: Issues and trends in India, *Delhi*,Renova International Publications, 9789393873651, 48-57
- Kanvaria, V.K.,& Yadav, A. (2023). Revitalizing elementary education in India: An examination of the national education policy 2020,*Greater Noida*, KCC ILHE, 9789394795082, 98-101
- Kanvaria, V.K.,& Yadav, A. (2023). Assessing the engagement of primary learners with the math kids application: A digital learningexploration, *Mumbai*, IIT Bombay & IEEE, 9798350382280, 372-375
- Kanvaria,V.K.,& Yadav, A. (2023). Innovative alliances: A study of public-private partnerships in Indian higher education, *West Bengal*, Dhar Brothers, 9789359878256, 47-56
- Kanvaria, V.K., Yadav, A.,& Monika. (2023). Augmented reality and virtual reality, *Bangalore*, Archers and Elevators Publishing House, 9789394058487, NA
- Arora, P. (2023).राजनीति विज्ञान का शिक्षणशास्त्र, दिल्ली विश्वविद्यालय, दिल्ली, हिंदी माध्यम कार्यान्वय निदेशालय, 9789380172880, 215
- Arora, P. (2023).Adhyapaki Shiksha me Sudhar ki Dishayen, *Delhi*, Bharat ke Liye Shiksha by PralekPrakashan, 978-93-5500-435-2, NA
- Sandeep Kumar. (2023).Strengthening Qualitative Research in Education, *Delhi*, Muktibodh Publication, 9-789359-13-1047., 1-229
- Sandeep Kumar. (2023). Conceptualizing Qualitative Research in Education, *Delhi*, Muktibodh Publication, 9-789359-13-1047, 1-10
- Sandeep Kumar. (2023). Grounded Theory Research, *Delhi*, Muktibodh Publication, 9-789359-13-1047, 111-127
- Sandeep Kumar. (2023). Research and Innovation in the Context of the NEP 2020, *Delhi*, Atlantic Publication, 9-788126-935550, 255-275
- Chander, S. (2023). Biographical Research, *Delhi*, Muktibodh Publication, 9-789359-13-1047, NA

Upadhyay, T., & Baniwal, V. (2023). Technology in Education: Some Critical Reflections In: Fostering Values Education and Engaging Academic Freedom amidst Emerging Issues Related to COVID-19, *Netherlands*, Brill, 9789004688681, 66-97

Sharma, Y. (2023). Jeev vigyan mein madhyamik aur uttchar madhyamik school ke vidhyarthi yon ke anubhavon ki khoj, *Delhi*, Vani Publication, 9789357752053, 231-244

Sharma, Y. (2023). NCERT Science books for class VI, *Delhi*, NCERT, NA, NA

Journals

Scopus

Balaganapathi, D. & Baniwal, V. (2023). Introduction. *American Philosophical Practitioners Association*, Vol. 1, Issue 18, 3024- 3026.

Balaganapathi, D. & Baniwal, V. (2023). Conversations on Psychological Counselling and Philosophical Counselling: Examining the Convergences and Divergences Between Philosophical and Psychological Counselling. *American Philosophical Practitioners Association*, Vol. 1, Issue 18, 3072- 3084.

Balaganapathi, D. & Baniwal, V. (2023). Editorial. *Universidad de Sevilla*, (14), 13-16.

Kanvaria, V.K. & Yadav, A. (2023). Revolutionizing education in India through digital initiatives. *ECC*, Vol. 12, Issue 6, 674- 680.

Chhabra, M. & Das, R. (2023). Undergraduate students' visualization of quantum mechanical eigenstates and the role of boundary conditions. *IOP Publishing*, Vol. 44, Issue 2, 25702.

Chhabra, M. & Das, R. (2023). Physics Education. *IOP Publishing*, Vol. 58, Issue 3, 35016.

Bahadur, J. & Singh, S. (2024). उच्च शिक्षा में अध्ययनरत 'अन्य पिछड़े वर्गों' के विद्यार्थियों के शैक्षणिक अनुभवों का आख्यानपरक अध्ययन. *Sage Publication*, Vol. 1, Issue 6, 59-74. 10.1177/25816543231225006.

UGC

Ali, A., Nasruddin & Niwas, R. (2024). LGBTQ+ Rights and Gender Equality: Examining Legislative Approaches and Social Attitudes Worldwide. *Indian institute of Education*, Vol. 1, Issue 48, 74-80.

Bandana Kumari & Niwas, R. (2023). Educational Journey of Scheduled Castes. *Indian institute of Education*, Vol. 6, Issue 47(1), 1-11.

Chander, S. and Arora, C. (2024). Exploring the Role of Social Media in Adolescence Ecology. *CIET, NCERT*, Vol. 6, Issue 1, 90-101.

Ingole, M., Kanvaria, V.K. & Mandal, H.K. (2023). Exploring the effect of anonymity in cyberbullying of females in higher education institutions of India. *NCERT*, Vol. 5, Issue 1, 98-111.

Kanvaria, V.K. & Kumar, S. (2024). Shaikshik takniki ke maadhyam se maanvadhikaron ki jankari par padne wale prabhaav. Vol. 91, Issue 1, 208-211.

Kanvaria, V.K. & Shubhkamna. (2023). Impact of DIKSHA course module on teacher's knowledge. Vol. 46, Issue 3, 24-37.

Kanvaria, V.K. & Suraj, M.T. (2023). Technology for strengthening the anti-plagiarism measures and penalties for plagiarism. Issue 61, 356-361.

Kanvaria, V.K. & Suraj, M.T. (2023). Impact of online learning on teachers: An exploratory study. *Vol. 32, Issue 2*, 193-202.

Kanvaria, V.K. & Yadav, A. (2023). Embodied learning experiences for preparatory level learners: Researching the efficiency of technology. *Vol. 53, Issue 2*, 1-9.

Kanvaria, V.K. & Yadav, A. (2023). Learning through visualizing solids with the Arloon geometry application: A quantitative study. *Vol. 49, Issue 3*.

Nikita & Niwas, R. (2023). Underprivileged Migrant Families' Children's Childhood and Education during COVID 19 in Delhi. *Vol. 12, Issue 84*, 54-62.

Sunil Kumar. (2023). A Study of Perception of Students Towards Mathematics at the Upper Primary Level in Delhi. *Vol. 8, Issue XXX, II*.

Yadav P. & Ingole, M. (2023). Why Digital Pedagogy for School Education? An Overview. *Indian institute of Education, Vol. 2, Issue 3*, 269- 282.

Arora, P. (2023). भारत में शिक्षक प्रशिक्षण नीति का अवलोकन: राष्ट्रीय शिक्षा नीति 2020 के सन्दर्भ में. *Council for Social Development in association with Sage Publication, Vol. 2, Issue 6*.

Kumar, G. (2023). SANSKRIT KATAHA SAHITYA KA PARISHILAN SHIKSHANAADHIGAM PRAKRIYA KE SANDARBH MEN. *KENDRIYA HINDI NIDESHALAYA BHARAT SARKAR, Issue 306*.

Research Projects

IOE, University of Delhi, Sandeep Kumar, PEDAGOGY IN HIGHER EDUCATION: EXPLORING AND DEVELOPING A POSSIBLEFRAMEWORK, 200000

IOE, University of Delhi, GYANENDER KUMAR, "संस्कृत ग्राम 'मत्तर' में, संस्कृत भाषा क संरक्षण, सिर्न एि शिक्षण अधर्म हत ककय जा रह प्रयासों समालोचनात्मक अध्ययन", 200000

ICSSR, Sunita Singh, "An Ethnographic Study of Baiga Tribes in Central India", 1200000

Seminars Organized

Prof. Pankaj Arora, Prof. Perikala Kesava Kumar, Prof. Sanjoy Roy, Prof. Anil Rai, Dr. Shashi Rani Dev, University of Delhi, G20Activities, A Panel Discussion on Dr. B.R. Ambedkar's "Idea of India", 28-04-2023

Prof. Pankaj Arora, Prof. Vandana Saxena, Prof. Kaushal Kishore, Prof. Pranati Panda, Prof. Pankaj Arora, Professor Vandana Saxena(University of Delhi) Prof. Kaushal Kishore (Jamia Millia Islamia) Prof. Pranati Panda (NIEPA), G20 Activities, A Panel Discussion on "NEP2020: RE-ENVISIONING TEACHER EDUCATION ", 28-07-2023

Prof. Raviprakash Tek Chandani, Prof. Niranjana Kumar, Dr. N. P. Singh, Prof. Amitabh Chakraborty, Dr. Vikas Gupta, National Council forPromotion of Sindhi Language, Bhartiya Basha Samiti, and University of Delhi, G20 Activities, 'राष्ट्रीय शिक्षा नीति 2020 में शिक्षक शिक्षा एवं भारतीय भाषाएं: सिंधी भाषा के संदर्भ में', 11-08-2023

Seminar/Conference Presentations (National / International)

International

Arora, P., as keynote speaker, in International Conference on Educational Technology and Global Sustainability, organised by Chandigarh University, Chandigarh, held on 3rd February, 2024.

Arora, P., as plenary speaker, in the 6th International Conference on Future of Education 2023, organised by International Relations Executive Sri Lanka, held on 6th July, 2023.

Arora, P., presented a paper titled "International conference Applying Education in a Complex world", in the "International conference Applying Education in a Complex world", organised by Architecture Media Politics Society in collaboration with Sheridan College, Toronto Canada, held on 27th April, 2023.

Baniwal, V., presented a paper titled "Sri Aurobindo's Integral Yoga as Philosophical Counselling", in the 26th International Congress of Vedanta. Vedāntic Perspective on Consciousness and Intelligence, organised by Center for Indic Studies at the University of Massachusetts, Dartmouth, Jawaharlal Nehru University, and Institute of Advanced Sciences, held on 12th August, 2023.

Kanvaria, V.K., presented a paper titled "Shiksha ko badalne mein ICT upkarnon ki Bhoomika", in the International Conference on Role of Education, Literature, Culture and Society in the Global Scenario, organised by Tribhuvan University, Kathmandu, Nepal & SRSTCE, Bihar, held on 4th April, 2023.

Kanvaria, V.K., presented a paper titled "Identification of AI tools for management studies with respect to human resource", in the International Research Conference on Emerging Technologies in Business Management, organised by MET IoM & University of Mumbai, Mumbai, Maharashtra, held on 28th April, 2023.

Kanvaria, V.K., presented a paper titled "Digital India initiatives: Unleashing the possibilities and trends in education", in the International Research Conference: Vishleshan 2023, organised by VIMR & University of Mumbai, Maharashtra, held on 29th April, 2023.

Kanvaria, V.K., presented a paper titled "Exploring online safety and citizenship among Indian students: Evaluating digital citizenship week", in the International Conference on Multidisciplinary Research, organised by DDDEC, West Bengal, held on 14th May, 2023.

Kanvaria, V.K., presented a paper entitled "Immersive technology for primary school education: A comprehensive study on its efficacy and impact on student engagement and achievement", in the International Multidisciplinary Conference on Contemporary Trends and Developments in Management, Education, Science and Social Sciences, organised by ICERT, DT University, Ethiopia, NIILM University, Haryana & PGDAVC, New Delhi, held on 3rd June, 2023.

Kanvaria, V.K., presented a paper titled "Learning mathematics utilizing mobile-based augmented reality: Insights from elementary classrooms", in the International Conference on Recent Challenges in Engineering and Technology, organised by IFERP & University of NUS, Indonesia, held on 17th June, 2023.

Kanvaria, V.K., presented a paper titled "Revolutionizing Indian higher education: Exploring new frontiers in public-private collaboration", International Conference on Multidisciplinary Research 2.0, organised by TNTEU, Tamil Nadu & DDDEC, Dinajpur, West Bengal, held on 10th September, 2023.

Kanvaria, V.K., presented a paper titled "Rashtriya shiksha neeti (NEP) 2020 evam shaikshik takniki: Shiksha ke pariprekshya mein chunautiyan", in the International Conference on Multidisciplinary Research 2.0, organised by TNTEU, Tamil Nadu & DDDEC, Dinajpur, West Bengal, held on 10th September, 2023.

Kanvaria, V.K., presented a paper titled "Adaptive learning technologies and personalized educational framework: a pathway to 21st century skill development", in the Students' Two-Day International Virtual Conference Education on Sustainability and National Policies: Strategies, Bandwagons and Administrative Models, organised by Jamia Millia Islamia and Universitas Pendidikan, Indonesia, held on 29th September, 2023.

Kanvaria, V.K., presented a paper titled "How technology transforms higher education: Issues, innovations, challenges and implications in the digital age", in the International Conference on Changing Dynamics of Higher Education in South Asia and the 21st Century Transformative Goals: Contexts, Concerns and Prospects, organised by KC, BSSRV & KU, Assam, held on 22nd December, 2023.

Kanvaria, V.K., presented a paper titled "Novel applications and integration of machine learning in education: Exploring emerging trends", in the Jamia International Conference on Education, organised by JMI, New Delhi, held on 15th February, 2024.

Kanvaria, V.K., presented a paper titled "Artificial intelligence literacy among secondary school students: An exploratory study", in the International Conference on Multidisciplinary Perspectives Towards Sustainability in the Era of Artificial Intelligence, organised IU, Lucknow, held on 6th March, 2024.

Kanvaria, V.K., presented a paper titled "A comprehensive study on integrating augmented reality in classroom from the perspective of teachers", in the International Conference on Multidisciplinary Perspectives Towards Sustainability in the Era of Artificial Intelligence, organised by IU, Lucknow, held on 6th March, 2024.

Sandeep Kumar, presented a paper titled "Understanding Childhood from Children's Perspective: An Interpretivist Exploration", in the Paris Conference on Education, organised by IAFOR, Paris, held on 17th June, 2023.

Singh, S., presented a paper titled "Unfolding Historical and Socio-Cultural Challenges, Concerns, and Barriers of Scheduled Tribes of Jharkhand in Indian Higher Education Context", in the International Conference on Sociology in South Asia, organised by South Asian Sociological Society, on 28th November, 2023.

National

Arora, P., as panelist, in the seminar "An awareness programme on SDGs 4 and 13, Fostering Sustainable Development through Education and Climate Action", organised by Dr B. R. Ambedkar University, Delhi, held on 3rd November, 2023.

Arora, P., as keynote speaker, in the National Conference Happiness and Sustainability around the Globe: Implications for SDGs, organised by Guru Gobind Singh Indraprastha University, New Delhi, held on 12th October, 2023.

Arora, P., as resource person, in the National Workshop on School Quality Assurance System in the Context of NEP 2020: Insights from the Shaala Siddhi Programme, organised by NIEPA, New Delhi, held on 25th September, 2023.

Arora, P., as resource person, in the workshop Development of guidelines for Samajik Chetna Kendra under Nav Bharat Saksharta Karyakram, organised by Cell for National Centre for Literacy (CNCL), NCERT, New Delhi, held on 1st August, 2023.

Arora, P., as panelist, in the Seminar “Empowering the Institutions and strengthening academic linkages through the SCERTs and DIETs”, organised by अखिल भारतीय शिक्षा समागम (Third Anniversary of NEP 2020), held on 29th July, 2023.

Arora, P., as keynote speaker, in National Conference on Celebrating Diversity & Embracing Inclusion: Realising the Ideals of Vasudhaiva Kutumbkam, organised by Bharatiya Vidya Bhavan, Delhi Kendra, held on 29th May, 2023.

Baniwal, V., as presented a paper titled "Professionalisation of Philosophical Counselling in India", in the Two-Day National Seminar on ‘Philosophical Counselling in the Context of Indian Society, organised by Department of Philosophy, Kurukshetra University, Kurukshetra, held on 19 September, 2023.

Baniwal, V., presented a paper titled "Exploring the possibilities of democratising technology", in the Online National Seminar on “Empowering Women in Technology: Reshaping the 21st Century Classroom”, organised by Isabella Thoburn College, held on 27th February, 2024.

Chaudhari, P., presented a paper titled "Reproductive and Sexual Health of Women in India", in the Two-Day National Conference on Women's Health and Well-being, organised by Central University of Haryana, Haryana, held on 13th October, 2023.

Sandeep Kumar, presented a paper titled "Grounded Theory: A Qualitative Tradition, Teacher as Researcher, workshop", organised by Lady Irwin College, University of Delhi, held on 20th June, 2023.

Sandeep Kumar, presented a paper titled "Best Internal Quality Assessment System", in the National Seminar - Best Internal Quality Assessment Systems, organised by Rishi Aurobindo Institute of Teacher Education, held on 27th July, 2023.

Sandeep Kumar, presented a paper titled "Rethinking and Redefining Curricular Structures", in the Seminar NEP 2020: Vision, Possibilities and Challenge, organised by Miranda House College, University of Delhi, held on 27th September, 2023.

Sandeep Kumar, presented a paper titled "Equity and Ability Based Learning and Assessment", in FDP: Teaching, Learning, and Evaluation, organised by Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore, (M.P.), held on 21st November, 2023.

Sandeep Kumar, presented a paper titled "Research and Development with respect to NEP 2020", in the Orientation Programme on NEP 2020, organised by UGC-MMTTC, University of Allahabad, held on 21st November, 2023.

Sandeep Kumar, presented a paper titled "Qualitative Research: A Critical Conceptualization", in Faculty Development Programme on Research, organised by HRDC: BPS Women University, Khampur, Kalan, Sonapat, Haryana, held on 25th January, 2024.

Sandeep Kumar, presented a paper titled "Grounded Theory Research", in Faculty Development Programme on Research, organised by HRDC: BPS Women University, Khampur, Kalan, Sonapat, Haryana, held on 25th January, 2024.

Sandeep Kumar, presented a paper titled "Approaches to Assessment", in the CRE Programme, RCI, organised by Durga bai Deshmukh College of Special Education, University of Delhi, held on 13th January, 2024.

Sharma, Y., as panelist, in the seminar “Concerns of Diversity and Inclusion in Higher Education Institutions in India”, organised by GGSIP University, Dwarka, held on 28th April, 2023.

Sharma, Y., as resource person, in Refresher Course in Teacher Educator and NEP 2020, organised by UGC-Human Resource Development Centre (HRDC), Devi Ahilya Vishwavidyalaya, Indore, (M.P.), held on 27th September, 2023.

Sharma, Y., as resource person, in Short Term Course on Inclusion and NEP 2020, organised by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore, (M.P.), held on 20th December, 2023.

Singh, S., presented a paper titled "Perception of Prospective Teachers towards Transforming Teacher Education Program from the Lens of NEP-2020", in the ICSSR Sponsored Two Day National Seminar on Transforming Indian Education Post NEP 2020 Connecting to the past Targeting at the future, organised by Jamia Millia Islamia, held on 15th February, 2024.

Singh, S., presented a paper titled "Analysis of Teacher Education Curriculum Concerning the Inclusion of Indian Knowledge System", in the National Seminar on Indian Knowledge System in Education: The Way Forward, organised by M. S. University of Baroda, Gujarat, held on 11th January, 2024.

Singh, S., presented a paper titled "Exploring the Readiness of Prospective Teachers Towards Integration of IKS in Teacher Education Program", in the ICSSR Sponsored Two Day National Seminar on "From Roots to Heights: Integrating Indian Knowledge System into the Tapestry of Contemporary Education and Modern Practices", organised by Department of Education, Central University of Jharkhand, Ranchi, held on 14th March, 2024.

Singh, S., presented a paper titled "Contextualizing the Status of Tribal Students of Jharkhand in Higher Education: An Exploratory Study", in the National Seminar on New Vision for Tribal Empowerment: Strategies, Opportunities, and Challenges, organised by Education Dept. A.N.D. TEACHERS TRAINING(P.G.) COLLEGE, SITAPUR, held on 18th February, 2024.

Extension and Outreach Activities

Yoga, Heritage Walks and Music for B.Ed. and M.Ed. students

Number of M.Phil./Ph.D. Degrees Awarded

M.Phil.: 14

Ph.D.: 18

Faculty Strength

Professor: 17

Associate Professor: 08

Assistant Professor: 15

Other Significant Information

The department has its own website <http://www.doe.du.ac.in> which is updated almost every day. The website is visually and hearing challenged-friendly and maintained by a highly dedicated team. It is highly enriched with the information bearing the titles Home, About Us, Faculty, Academics, Students, Scholars,

Colloquium/Viva, Admissions, IQAC, Resources, CIE Staff, CIE Alumni Website, Honour Board, Infrastructure & Facilities, Useful University Links, Useful Web Links, Annual Report, Special Web Resources for Visually & Hearing Challenged, Anti-Ragging, Anti-Smoking, SC/ST/OBC Grievance Cell, Students' Grievance Redressal and North East Student Grievance and Contact Us. The website is explored regularly by all the students, constituent colleges and faculty members. The department has a vigilant Anti-ragging cell as per UGC guidelines. The department also maintains a school attached with it, namely CIE Experimental Basic School which works under direct guidance and supervision of the departmental authority. The school has a very optimal teacher-student ratio especially as compared to other schools in Delhi.

FACULTY OF HOMOEOPATHIC MEDICINE
NEHRU HOMEOPATHIC MEDICAL COLLEGE & HOSPITAL

Major Activities and Achievements

The Yuvamanthan Model G20 summit held at NHMC & H on August 28, 2023, simulated the international G20 event, offering young leaders a unique platform to engage in diplomacy, critical thinking, and public speaking. Comprising 20 teams, each representing a G20 nation, the summit featured parallel Sherpa and Finance tracks. The summit highlighted the significance of international collaboration, culminating in valuable insights and consensus building among participants. The participants discussed the most pressing issues on global economics, Homoeopathy –research collaborations, environmental and trade-related affairs fronts.

Covid Testing Centre has been functional in the same premises since 01.07.2020.

Publications

Scopus

Thankaraj., B., (2023) Homoeopathic Treatment of Mild Cases of Covid-19 on Home Isolation: A Retrospective Observational Study. *Thieme Medical & Scientific Publisher* 37, 24-30

Thomas, R., (2024) Usage of Arsenicum album 30C as a prophylactic medicine in healthcare worker of a COVID health centre-a report. *Central Council for Research in Homoeopathy* 18 (1), 15-20

Seminars Organized

Dr. Rachna Paliwal, Assistant Drug Controller, NIL, Drugs and Cosmetics Act, 10-08-2023

Dr. Harleen Kaur, Research Officer- Scientist 2, Nil, Introduction to PFR and its implication in improving data collection in Homoeopathy, 14-08-2023

Conferences Organized

World Blood Donors day , 14-06-2023

World Earth Day, 24-04-2023

Malaria Awareness Camp, 25-04-2023

World Millets Day, 04-05-2023

World Environment Day, 05-06-2023

Seminar/Conference Presentations

Dr. Bipin Jethani delivered a presentation on Healthy Living according to Hahnemannian Principles: An Ode to Hahnemann during the International virtual conference organized by Directorate of AYUSH and LMHI on 10th April 2023.

Extension and Outreach Activities

Department of Community Medicine, Nehru Homoeopathic Medical College organized the following –
School Health Camp organized on 4.05.2023 at RPVV, Defence Colony.

Health Checkup and Awareness camp on 19.09.2023 at Chaupal, Pilangi village, Kotla.

Awareness Program on Heart Disease and to promote the message of Hand Hygiene and water conservation on 19.09.2023 at Chaupal, Pilangi village, Kotla.

Awareness Program on Diabetes Mellitus on 29.11.2023 at Chaupal, Pilangi village, Kotla.

Awareness Program on Health and Hygiene on 30.11.2023 at RPVV, Defence Colony.

Faculty Strength

Senior Professor/Professor/Director: 20

Guest: 12

FACULTY OF INTERDISCIPLINARY AND APPLIED SCIENCES

BIOCHEMISTRY

Major Activities and Achievements

The Department has carried out its teaching and research activities with full rigor. Recruitment of Assistant Professors against advertised posts in Biochemistry in various colleges of the University of Delhi was completed. Promotion of teachers in Biochemistry in various colleges was also done. An interaction meeting of the college teachers, college Principals and Department Faculty Members was organized. Prof. Balaram Pani, Dean of Colleges, University of Delhi, graced the meeting. The course structure and content for a Minor specialization in Biochemistry at the UG level were discussed with college teachers and finalized. Four students from the Department received their PhD degrees this year. Student committees have been constituted to encourage students to participate in departmental activities. Science Day was celebrated with great enthusiasm on 29th February 2024. Sports Day was organized in February 2024 with a range of games, competitions and prizes for students. An excursion trip for M.Sc. and Ph.D. students accompanied by faculty members was organized in March 2024.

Publications

Journals:

Bandyopadhyaya, S., Yadav, P., Sharma, A., Dey, S.K., Nag, A., Maheshwari, R., Ford, B.M. and Mandal, C.C. (2023), Oncogenic role of an uncharacterized cold induced zinc finger protein 726 in breast cancer, *OI: 10.1002/jcb.30417*, 124, 889-906

Shruti Mathur, Sanjeev Kumar Yadav, Kajal Yadav, Shruti Bhat and Suman Kundu (2023), A novel single sensor hemoglobin domain from the thermophilic cyanobacteria *Thermosynechococcus elongatus* BP-1 exhibits higher pH but lower thermal stability compared to globins from mesophilic organisms, <https://doi.org/10.1016/j.ijbiomac.2023.124471>, 240, 124471

Atri, Y., Bharti, H., Sahani, N., Sarkar, D.P., Nag, A. (2023), CUL4A silencing attenuate cervical carcinogenesis and improves Cisplatin sensitivity, *oi: 10.1007/s11010-023-04776-2*, -, 1-18

Ojha, R., Chand, K., Vellingiri, B., Prajapati, V.K.(2023), Cloning, expression and in vitro validation of chimeric multi epitope vaccine candidate against visceral leishmaniasis infection, *oi- 10.1016/j.lfs.2023.121689*, 323, 121689

Singh, S., Rao, A., Mishra, A., Mishra, A., Prajapati, V.K.(2023), Multifaceted mutational immunotherapeutic approach to design therapeutic mAbs to combat monkeypox disease via integrated screening algorithms and antibody engineering, *oi- 10.1039/D3ME00059A*, 8, 1301-1318

Iyer, M., Anand, U., Thiruvengataswamy, S., Babu, H.W.S., Narayanasamy, A., Prajapati, V.K., Tiwari, C.K., Gopalakrishnan, A.V., Bontempi, E., Sonne, C., Barceló, D., Vellingiri, B. (2023), A review of chromium (Cr) epigenetic toxicity and health hazards, *oi: 10.1016/j.scitotenv.2023.163483*, 882, 163483

Pradhan, S.K., Sahani, N., Preeti and Nag, A. (2023), Mechanistic insights into the oncogenic partnership of hADA3 and HPVE6-paving ways for improved for improved cervical cancer therapy, *OI: https://doi.org/10.56042/ijbb.v60i9.4162*, 60, 651-658

Naik, B., Gupta, N., Godara, P., Srivastava, V., Kumar, P., Giri, R., Prajapati, V.K., Pandey, K.C., Prusty, D. (2023), Structure-based virtual screening approach reveals natural multi-target compounds for the development of antimalarial drugs to combat drug resistance, *oi: 10.1080/07391102.2023.2240415*, 1, 1-25

Vellingiri, B., Balasubramani, K., Iyer, M., Raj, N., Elangovan, A., Song, K., Yeo, H.C., Jayakumar, N., Kinoshita, M., Thangarasu, R., Narayanasamy, A., Dayem, A.A., Prajapati, V.K., Gopalakrishnan, A.V., Cho, S.G. (2023), Role of Telomeres and Telomerase in Parkinson's Disease-A New Theranostics?, *oi: 10.1002/adbi.202300097*, 17, e2300097

Nupur Angrish, Neha Lalwani and Garima Khare(2023), In silico virtual screening for the identification of novel inhibitors against dihydrodipicolinate reductase (DapB) of Mycobacterium tuberculosis, a key enzyme of diaminopimelate pathway, *oi.org/10.1128/spectrum.01359-23*, 11, e0135923

Chetkar Chandra Keshavam, Saba Naz, Aanchal Gupta, Priyadarshini Sanyal, Manisha Kochar, Aakriti Gangwal, Nitika Sangwan, Nishant Kumar, Ekta Tyagi, Simran Goel, Nitesh Kumar Singh, Divya Tej Sowpati, Garima Khare, Munia Ganguli, Dominique Raze, Camille Loch, Sharmila Basu-Modak, Meetu Gupta, Vinay Kumar Nandicoori, Yogendra Singh. (2023), The heparin-binding haemagglutinin protein of Mycobacterium tuberculosis is a nucleoid-associated protein, *oi.org/10.1016/j.jbc.2023.105364*, 299, 105364

Kupani, M., Pandey, R.K., Vashisht, S., Singh, S., Prajapati, V.K., Mehrotra, S. (2023), Prediction of an immunogenic peptide ensemble and multi-subunit vaccine for Visceral leishmaniasis using bioinformatics approaches, *Heliyon*, 22121.doi:10.1016/j.heliyon.2023, 9, e22121

Nupur Angrish and Garima Khare. (2023), Antisense oligonucleotide-based therapeutics and its applications against bacterial infections, *ttps://doi.org/10.1016/j.medidd.2023.100166*, 20, 100166

Srivastava, V., Godara, P., Jena, S.P., Naik, B., Singh, S., Prajapati, V.K., Prusty, D. (2024), Peptide-ligand conjugate based immunotherapeutic approach for targeted dismissal of non-structural protein 1 of dengue virus: A novel therapeutic solution for mild and severe dengue infections, *oi: 10.1016/j.ijbiomac.2024.129562*, 260, 129562

Books/Book Chapters

Vijay Kumar Prajapati, Rupal Ojha, (2024), MicroRNA in Human Infectious Diseases, Elsevier Academic Press, ISBN: 9780323996617

Singh, S., Kumar, K., Rao, A., Prajapati, V.K., (2024), Bioinformatics Approaches in Studying the Fungal Endophyte-Derived Bioactive Compounds with Pharmacological Relevance, *In Book - Endophytic Fungi: The Hidden Sustainable Jewels for the Pharmaceutical and Agricultural Industries*, Cham: Springer International Publishing, ISBN- 978-3-031-49111-5, 191-208

Kumar, Gaurav, Sanjay Kumar Dey, and Suman Kundu, (2023), Nitric oxide and cardiovascular diseases: cardioprotection, complications and therapeutics. *In Book - Nitric Oxide: From Research to Therapeutics.*, Cham: Springer International Publishing, 978-3-031-24777-4, 41-66

Research Projects

Professor Alo Nag - CSIR, Understanding the Tumor Suppressive Properties of Artemisinin in Blocking the Oncogenic Activities of FOXM1 and HBX in Hepatocellular Carcinoma, Rs.25 Lakhs.

Dr. Dau Dayal, DBT, Genome-wide analysis to trace signatures of induced obesity in *Drosophila melanogaster* (Project's acronym – GenSig), Rs.78,27,818

Dr. Vijay Kumar Prajapati, ICMR, Quantification and expression of anti-apoptotic and pro-apoptotic proteins of *Leishmania* parasites for developing novel therapeutics, Rs. 22,041,907

Dr. Vijay Kumar Prajapati, ICMR, Inhibiting glycosomal membrane biogenesis as a potential leishmaniasis treatment, Rs. 97,22,744

Seminars Organized

Prof. P.C. Ghosh Memorial Lecture 2024 entitled, "microRNAs - Basic biology to Translational Relevance" on 29-02-2024 by **Dr. Neeru Saini, Chief Scientist, CSIR Institute for Genomics and Integrative Biology New Delhi**

Departmental Seminar entitled, "Drug repositioning/repurposing: Promising strategy to develop therapy against viral infections" on 24-06-2023 by **Dr Anirban Basu, Senior Scientist at National Brain Research Center, Manesar, Haryana**

Department, Seminar entitled, "The Nonhuman Primate Preclinical Model of TB and TB/AIDS: Immune Responses in and Prior to Formation of Granulomas" on 31-10-2023 by **Prof. Deepak Kaushal, Professor and Head at the Southwest National Primate Research Centre, Texas Biomed, USA**

Departmental Seminar on "Translating the Perturbed Pathophysiology in Tuberculosis" on 10-10-2023 by, Dr. Ranjan Nanda, Group Leader, Translational Health, ICGEB.

Departmental Seminar on "Leptin dysregulation linked to the severity of infectious disease" on 06-10-2023 by **Dr. Radheshyam Maurya, Department of Animal Biology, School of Life Sciences, University of Hyderabad.**

Seminar/Conference Presentations (National / International)

Amita Gupta

Phage Display: A powerful Technique and its Applications. 4th International Conference on Bacteriophage Research and Antimicrobial Resistance, University of Madras, Chennai. 2023-09-29

Basics of Bacteriophage Biology & Clinical Applications to Combat the Emerging Antimicrobial Resistance: A Hands-On Training, Scientific Workshop on Bacteriophage Therapy, Banaras Hindu University, Varanasi. 2023-10-03.

Alo Nag

Unlocking the Oncogenic Nexus: HPV-E7 and APC/C-Cdh1 in Cervical Carcinogenesis, SBC 2023 Conference, BITS, Pilani, Goa. 2023-12-18.

Garima Khare

Novel insights into pathogenesis of Tuberculosis for the development of Vaccines, Diagnostics and Therapeutics, International Symposium cum CME, Department of Zoology, Miranda House, University of Delhi and Indian Immunology Society. 2023-05-04.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 04

Faculty Strength

Total: 06 (Six) - (Professor – 03, Associate Professor – 01 and Assistant Professor – 02)

Other Significant Information

The department organized a meeting with College Teachers and Principals on 6 January 2024. Professor Balaram Pani, the dean of colleges at the University of Delhi, graced the meeting.

Department Sports Day was organized on 17th February 2024.

Science Day was celebrated in the Department on 29th February 2024.

A Department Excursion Trip to Mussoorie for M.Sc. and Ph.D. students accompanied by Faculty Members was organized from 7th to 10th March 2024.

BIOPHYSICS

Major Activities and Achievements

The Department of Biophysics has well-established research labs supported by extramural grants from DBT, DST, ICMR, CSIR, UGC, and intramural grants from the University of Delhi. The department provides research opportunities in structural and computational biology. Dr. Manish Kumar's research group works on various translational research problems, focusing on microbial genome and proteome analysis using bioinformatics, chemoinformatics, and phylogenomics. His team examines virulence and antibiotic resistance mechanisms among microbes, predicts functional interactions in metabolic and signaling pathways, and identifies targets for diagnostics, vaccines, and therapeutics. They utilize molecular modeling and simulations for structure-based drug design and drug repurposing. Additionally, Kumar's lab employs Next Generation Sequencing to analyze antibiotic resistance genes in different reservoirs, creating a library for annotating metagenomic samples to develop point-of-care diagnostic tests for infections. The group collaborates closely with experimental scientists to generate translational outcomes from in-silico experiments. Prof. Manisha Goel's group works on structural bioinformatics, focusing on protein folding and the mechanism of Cas proteins in CRISPR. Dr. Hemlata Agnihotri works on cell signaling, receptor biology, and host-pathogen interactions. Dr. Sumit Kumar Chaturvedi explores protein conformational changes and ligand binding. Recently, Dr. Suman Tapryal joined as an Associate Professor, specializing in subunit vaccines, protein engineering, and applied biotechnology.

Publications

Sharma B.; Koren D.T.; Ghosh S. (2023), Nitric oxide modulates NMDA receptor through a negative feedback mechanism and regulates the dynamical behavior of neuronal postsynaptic components Journal: Biophysical Chemistry, 0.1016/j.bpc.2023.107114, 303

Siddiqui S.I.; Malik C.; Ghosh S.(2023), Voltage dependent anion channel and its interaction with N-acetyl-L-Cysteine (NAC) under oxidative stress on planar lipid bilayer, Journal: Biochimie, 0.1016/j.biochi.2023.02.005, 209, 150-160

Koren D.T.; Shrivastava R.; Ghosh S. (2023), Ca²⁺/Calmodulin-Dependent Protein Kinase II Disrupts the Voltage Dependency of the Voltage-Dependent Anion Channel on the Lipid Bilayer Membrane Journal: Journal of Physical Chemistry B, 0.1021/acs.jpcb.3c00142, 127, 3372-81

Kumar J.; Das Gupta P.; Ghosh S. (2023), Effects of nonlinear membrane capacitance in the Hodgkin-Huxley model of action potential on the spike train patterns of a single neuron Journal: EPL, 0.1209/0295-5075/acd80c, 142, -

Ray N., Kumar Vishwakarma R., Jain A., Kumar M., Goel M. (2023), ProSeqAProDB: Prosequence Assisted Protein Database Journal: Journal of Molecular Biology, 0.1016/j.jmb.2023.168022, 435, -

Adusumilli S.H., Dabburu G.R., kumar M., Arora P., Chattopadhyaya B., Behera D., Bachhawat A.K. (2024), The potential of *R. toruloides* mevalonate pathway genes in increasing isoprenoid yields in *S. cerevisiae*: Evaluation of GGPPS and HMG-CoA reductase Journal:Enzyme and Microbial Technology, 0.1016/j.enzmtec.2023.110374, 174, -

Aswal M., Singhal N., Kumar M. (2023), Comprehensive genomic analysis of hypocholesterolemic probiotic *Enterococcus faecium* LR13 reveals unique proteins involved in cholesterol-assimilation Journal: Frontiers in Nutrition, 0.3389/fnut.2023.1082566, 10, -

Akhtar N., Mannan M.A., Pandey D., Sarkar A., Sharma H., Kumar M., Ghosh A. (2023), Potent antifungal properties of gallic acid in *Sarcochlamys pulcherrima* against *Candida auris* Journal: Biotechnologia, 0.5114/bta.2023.127202, 104, 105-119

Jain A., Singhal N., Kumar M. (2023), AFRbase: a database of protein mutations responsible for antifungal resistance, 0.1093/bioinformatics/btad677, 39, -

Aswal M., Singhal N., Kumar M. (2023), Genomic analysis of phylogroup D *Escherichia coli* strains using novel de-novo reference-based guided assembly Journal: Scientific Data, 0.1038/s41597-023-02444-0, 10,

Research Projects

Science and Engineering Research Board (SERB), Dr. Hemlata Agnihotri, Elucidating the functional insights of super-conserved receptor expressed in the brain, SREB3 (GPR173), 29,30,389

Indian Council of Medical Research (ICMR), Dr. Suman Tapryal, Investigations into the adjuvant-like role of IgM Fc domains, as fusion partner of chimeric HSV2- Fc subunit vaccines, in stimulating Th1 type immune response in mice., 68,91,081

Indian Council of Medical Research (ICMR), Dr. Sumit Kumar Chaturvedi, Therapeutic Approach for Parkinson's disease, 83,91,081

Department of Biotechnology (DBT), Dr. Manish Kumar, National network project of Indraprastha Institute of Information Technology, Delhi, 1,97,99,240

Department of Biotechnology (DBT), Dr. Manish Kumar, National network project of Aligarh Muslim University, Aligarh, 1,55,80,000

Indian Council of Medical Research (ICMR), Dr. Manish Kumar, Artificial intelligence-aided genomics, transcriptomics and proteomics analyses of multidrug-resistant enteropathogens to discern novel drug targets, 29,37,538

Indian Council of Medical Research (ICMR), Dr. Manish Kumar, Using the National COVID 19 testing database to develop a machine learning model for rapid prioritization/triage of SARS-CoV2 patients and demographic groups, 35,16,810

Department of Biotechnology (DBT), Dr. Manish Kumar, Specific single domain antibodies (sdAbs) against antimicrobial resistant Mastitis pathogens for clinical therapeutic use in dairy animals, 1,50,95,702

Department of Science and Technology (DST), Dr. Manish Kumar, Center of Antibody Engineering: Center for Immuno-Diagnostics! Therapeutics Veneering technologies (CIVET), 4,74,60,400

Seminars Organized

Meet the Bioinformatician Series Episode 2. Prof. Kiyoko F. Aoki-Kinoshita (Professor, Soka University, Tokyo, Japan), 29-04-2023

Meet the Bioinformatician Series Episode 3: Prof. Andrew Lynn (Professor, School of Computational and Integrative Sciences, JNU, New Delhi), 30-05-2023

Meet the Bioinformatician Series Episode 4: Prof. Ramakrishna Ramaswamy (Dept. of Chemistry at IIT Delhi), 16-06-2023

Meet the Bioinformatician Series Episode 6: Dr. Sudhir Thakurela (Principal Investigator, Lurie Center for Autism, Department of Paediatrics, Harvard Medical School, USA), 28-08-2023

Meet the Bioinformatician Series Episode 7: Prof. Alok Bhattacharya (former Professor, School of Life Sciences, JNU New Delhi; currently at Ashoka University Sonapat, Haryana), 12-10-2023

Workshop for mental well-being entitled ‘Strategies for Navigating Student Life with Mental Resilience’ by Dr. Swapan Gupta, Associate Professor, Department of Neurology, GB Pant Hospital, New Delhi, 03-11-2023

Seminar/Conference Presentations (National / International)

National

Dr. Manish Kumar

Presented a talk titled, “Using Machine-Learning to Discern the Antimicrobial Resistance Profile of Microbes” in a DBT-ICGEB workshop on “Artificial Intelligence in Modern Biology” at ICGEB, New Delhi.

Extension and Outreach Activities

We have started an outreach activity in collaboration with International Society of Computational Biologist (ISCB) to popularize Bioinformatics as a research discipline among the students (undergraduate as well as

postgraduate). We invite leading figures of Bioinformatics to interact with the students. We have also organized Art of living event under Har ghar Dhyam.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 05

Faculty Strength

Total: 05 (Five) - (Professor – 01, Associate Professor – 01 and Assistant Professor – 03)

ELECTRONIC SCIENCE

Major Activities and Achievements

The faculty members are actively engaged in research as well as supervision of research leading to the Ph.D degree in the field of optical electronics, semiconductors, microwaves and microelectronics. The faculty members published quality papers in Journals and were also granted patent. The Department has national and international collaborations and several research projects funded by the CSIR, DRDO etc. Apart from this, the Department organizes seminars, lectures and talks on a regular basis. An educational tour to visit CEERI Pilani was organized in March 2024. The Annual Visitors' program and alumni meet was organized on March 16, 2024.

Honours/Distinctions

Faculty

- Prof. Mridula Gupta: International Research Awards on Advanced Nanomaterials and Nanotechnology under the category of Best Researcher Award in December 2023.
- Dr P. Koteswara Rao: Research paper entitled “Core shell heterojunction interface in green synthesized Sm³⁺ ions doped ZnO nano-particles to promote the charge separation for efficient photocatalytic applications” selected for Best Research Publication Award for the year 2023-2024 – DU IoE
- Dr B. Mukherjee: IEEE AP/MTTS joint Chapter of Gujarat Section for Innovation in Antenna Technology for 2023

Publications

Research Articles

Khushwant Sehra, Chanchal, Anupama Anand, Vandana Kumari, Reeta, Mridula Gupta, Meena Mishra, D. S. Rawal, Manoj Saxena(2023), Efficacy of Γ -Gate in RF Power Performance of Thin GaN Buffer AlGaIn/GaN HEMTs, *0.1109/TED.2023.3262228*,

Neha, Khushwant Sehra, Vandana Kumari, Mridula Gupta, Manoj Saxena(2023), Investigation of SiNx Passivated Dual Field Plate AlGaIn/GaN HEMTs on Silicon Carbide and Sapphire Substrates Under Radiation Environment, *0.1007/s12633-023-02506-3*,

Anupama Anand, Khushwant Sehra, Chanchal, Reeta, Rakhi Narang, D. S. Rawal, Meena Mishra, Manoj Saxena and Mridula Gupta(2023), Impact of barrier layer thickness on DC and RF performance of AlGaIn/GaN high electron mobility transistors, <https://doi.org/10.1007/s00339-023-06803-x>, 129, 563

Khushwant Sehra, Anupama Anand, Chanchal, Amit Malik, Vandana Kumari, Mridula Gupta, Meena Mishra, D. S. Rawal, and Manoj Saxena(2023), Efficacy of back barrier engineered Al Gate InAlN/GaN high electron mobility transistors for high- power applications, *0.1088/1361-6463/acdf6d*, 56,

Monika Sharma, Rakhi Narang, Manoj Saxena and Mridula Gupta(2023), A comprehensive study of InGaAs based linearly graded channel DL-TFET and its single event transient effect, *0.1088/2631-8695/acf188*,

Vandana Kumari, Khan Mehar Un Nisa, Mridula Gupta, Manoj Saxena(2023), Influence of deep level trap charges on the reliability of asymmetric doped double gate JunctionLess transistor (AD-DG-JLT), *0.1016/j.microrel.2023.115184*,

Shreyasi Das, Vandana Kumari, Khushwant Sehra, Mridula Gupta and Manoj Saxena(2023), On the double channel engineering of dual gate AlGaIn/GaN HEMTs for heavy ion sensing applications, *0.1016/j.micrna.2023.207653*,

Manisha Khurana, Upasana, Manoj Saxena and Mridula Gupta(2023), TCAD based investigation of junctionless phototransistor for UVC radiation detection, *0.1016/j.optilastec.2023.110486*, 172, 110486,

P. Jacob, C. P. Patil, S. Deng, S., K. Ni, K. Sehra, M. Gupta, M. Saxena, D. MacMohan and S. Kurinec(2023), A Comparative Study of n-and p-Channel FeFETs with Ferroelectric HZO Gate Dielectric, *0.3390/solids4040023*, 4, 356-367

Anupama Anand, Rakhi Narang, D. S. Rawal, Meena Mishra, Manoj Saxena and Mridula Gupta(2024), Optimization of 150 nm GaN HEMT for Ku-Band Applications using Field Plate Engineering, *0.1016/j.micrna.2024.207773*,

Anupama Anand, Rakhi Narang, Dipendra Singh Rawal, Meena Mishra, Manoj Saxena, Mridula Gupta(2024), Impact of Graded AlGaIn Buffer Layer Thickness on the DC, RF, Linearity, Intermodulation and Off-State Breakdown Characteristics of AlGaIn Channel HEMT, *0.1080/02564602.2024.2315628*, 1-10

Goyal, P, & Kaur, H(2023), . Assessing the impact of step gate oxide and gate electrode engineering on performance of $\text{In}^2\text{-Ga}_2\text{O}_3$ MOSFET for high frequency applications, *0.1016/j.micrna.2023.207603*,

Goyal, P, & Kaur, H(2023), Implementation of source extended multiple field plates and asymmetric doping on $\text{In}^2\text{-Ga}_2\text{O}_3$ MOSFET for high power applications, *0.1016/j.micrna.2023.207693*,

P. Sehgal & K. Pate(2023), Dual-Band 4-4 Hexagonal SRR MIMO Antenna with Port Excitation-Controlled Gain and Directivity for WLAN/WiMAX Applications., *10.2528/PIERC23030604.*, 135, 55-67

P. Sehgal & K. Patel(2024), Triband Dual Port H-SRR MIMO Antenna for WLAN/WiMAX/Wi-Fi 6 Applications, *0.2528/PIERM23102402*, 123, 35-43

A. Birwal, K. Patel & S. Singh(2024), Circular Slot-Based Microstrip Circularly Polarized Antenna for 2.45-GHz RFID Reader Applications, *0.1109/JRFID.2024.3354515.*, 8, 10-18

Ansari, M. R., Khaladkar, S., Kalekar, A., Kim, M. D., & Peta, K. R.(2023), Effect of annealing temperature on structural, optical and magnetic properties of green synthesized ZFO nanoparticles for electrochemical energy storage applications, 0.1016/j.est.2023.109494, 74, 109494

Kem, A., Pasupuleti, K. S., Jayasimhadri, M., Kim, M. D., & Peta, K. R.(2023), Core shell heterojunction interface in green synthesized Sm³⁺ ions doped ZnO nano-particles to promote the charge separation for efficient photocatalytic applications, 0.1016/j.jallcom.2023.170841, 960, 170841

Ansari, M. R., Kem, A., Agrohi, P., Mallick, P. K., Rao, P., & Peta, K. R.(2023), Structural, optical, magnetic and anti-bacterial properties of green synthesized spinel zinc ferrite by microwave-assisted method, 0.1016/j.matchemphys.2023.127641, 301, 127641

A K Yerrola, R K Arya, M Ali, L Murmu, Ashwani Kumar(2023), Wide-Angle Scanning Microstrip Patch Antenna Array for mmWave Applications with High Gain, 0.1080/02564602.2023.2255544, 1-10

AK Yerrola, RK Arya, M Ali, L Murmu, Ashwani Kumar(2023), THz quad-beam holographic antenna with independent beam control and low sidelobe levels, 0.1007/s11276-023-03418-1, 29, 3707-3716

Shivam, Kshitiz, Vanita Jain, Rachna Jain, Anand(2024), Improving generalization for geometric variations in images for efficient deep learning, Multimedia Tools and Applications, 10.1007/s11042-023-17897-z, 1-10

Pushp Rai Mishra, Shanti Rathore, Vanita Jain(2024), PVSyst enabled real time evaluation of Grid Connected Solar Photovoltaic System, 0.1007/s41870-023-01677-x,

Usha Sharma, Garima Srivastava, Mukesh Kumar Khandelwal (corresponding author), Rashmi Roges(2024), Shorting pins-based triple band circularly polarized modified monopole compact dual-port MIMO antenna for sub-6 GHz wireless applications, 0.1016/j.aee.2024.155162, 176,

Usha Sharma, Garima Srivastava, Mukesh Kumar Khandelwal, and Rashmi Roges(2024), Design Challenges and Solutions of Multiband MIMO Antenna for 5G/6G Wireless Applications: a Comprehensive Review, 0.2528/PIERB23101904, 104, 69-89

A. Birwal, K. Patel and S. Singh(2024), Circular Slot-Based Microstrip Circularly Polarized Antenna for 2.45-GHz RFID Reader Applications, 0.1109/JRFID.2024.3354515, 8, 10-17

Kaushal, V., Birwal, A., & Patel, K.(2023), Diversity characteristics of four element ring slot based MIMO antenna for sub 6 GHz applications, 0.4218/etrij.2022-0113, 581-593

Kaushal, V., Birwal, A., Patel, S. M., & Patel, K.(2023), Diversified path loss performance of dual-Polarised MIMO antenna in sub-6 GHz for RFID applications. International Journal of Electronics, 0.1080/00207217.2023.2221455, 1-17

Shivam, Kshitiz, Vanita Jain, Rachna Jain, Anand(2024), Improving generalization for geometric variations in images for efficient deep learning, Multimedia Tools and Applications, 0.1007/s11042-023-17897-z, 1-23

Book Chapters

Ashwani Kumar, P.P. Singh and Manoj Khanna , (2023) , Sustainable E-Waste Management and Its Effect on Environment and Human Health in Book: Integrated Waste Management , Singapore , Springer Nature Singapore , 10.1007/978-981-97-0823-9 , 349-373

Research Projects

IoE, DU, Dr. Amit Birwal, Design and development of high gain antenna for RADAR applications, ₹ 5 Lakhs

IoE, DU, Dr. Kamlesh Patel, Multi-Ring Resonator Based High Gain MIMO Antenna for Radar Applications, ₹ 5 Lakhs

IoE, DU, Dr. P. Koteswara Rao, Synthesis and characterization of ferrites nanostructures energy storage applications, ₹ 5 Lakhs

IoE, DU, Dr. Harsupreet Kaur, Performance and Reliability Analysis of Advanced Gallium Oxide based Devices using Theoretical Framework and Simulations, ₹ 5 Lakhs

IoE, DU, Sr. Prof Mridula Gupta, Capacity Building in Modelling and Simulation of Radiation Hardened HEMT Design and Energy- Efficient Devices for Space Application, ₹ 23 Lakhs

DST, Sr. Prof Mridula Gupta, Design, Optimization and Fabrication of Radiation Hardened Sub 0.15-micron gate length InAlN/GaN HEMT for Ku band application, ₹ 58.83 Lakhs

Seminars Organized

“RF Sensors and Microwave Imaging Methodologies for Biomedical and Humanitarian Applications” by **Prof. M. Jaleel Akhtar, Professor, Dept. of Electrical Engineering, IIT Kanpur, IEEE APS, 04-03-2024**

“Machine Intelligence for Space Exploration: Applications and Possibilities”, by **Dr.-Ing. Protim Bhattacharjee, Researcher at German Aerospace Center, 21-02-2024**

“Advancements in Antenna Development: Current Trends and Challenges”, by **Dr. Debdeep Sarkar Prof. Halappa R. Gajera, Dept of ECE, Indian Institute of Science (IISc) Professor, University of Mysore, IEEE APS, CRFID, 07-02-2024**

Two-day workshop on “PCB Circuit Design, Manufacturing and Assembly” by **Dr. Hema Mehta Kapoor Dr. Monika Bansal, Founder, CEO, CMO, HMPCB Solutions, 02-12-2023**

“3D Printed Electronics” by **Ifwat Mohd Ghazali, Professor, University of Cambridge, 01-11-2023**

“Futuristic Electronic Devices and Materials” by (i) Dr. Meena Mishra (ii) **Dr. R. K. Kotnala, Scientist H and Director, SSPL, DRDO and Scientist, NPL, 08-12-2023**

“New Measurement Technologies & Simulation Techniques in Electronics” by (i) **Vishal Gupta (ii) Bhavin Khanpara, Segment Manager, Keysight Tech Solutions Engineer at Keysight Technologies, 19-10-2023**

“Advancements in Antenna Development: Current Trends and Challenges”: **Speakers Dr. Mahesh P. Abegaonkar Prof. Priyanka Jain, Professor, IIT Delhi Professor, DTU, Department of Electronic Science University of Delhi South Campus & IEEE APS and CRFID, 07-02-2024**

Seminar/Conference Presentations (National / International)

National

Harsupreet Kaur

Polarity Controllable FETs – Emerging Prospect for Gas Sensing Applications: 10th International Conference on Microelectronics Circuits and Systems at Guwahati Assam, 2023-07-03

Amit Birwal

High Gain Series-Fed Gap-Coupled Antenna Array for Millimeter-Wave Applications: IEEE Microwaves, Antennas, and Propagation Conference by IEEE, 2023-12-12

Koteswara Rao Peta

Growth and Defects challenges of Wide bandgap Electronic Materials: Applications: International Conference on Advanced Functional Materials and Devices – 2024 at SRM Institute of Science & Technology, 2024-02-29

Emerging Electronic Applications of the Wide Bandgap Semiconductors: Growth and Defect Challenges: Recent Technologies and Innovations in Electronics and Photonics – 2021 by MIT World peace University in collaboration with DSIR, Govt. of India, 2024-02-10

Mukesh Kumar Khandelwal

Fabrication and Testing Techniques for Antennas: Expert lecture at NITTTR Chandigarh, 2023-09-14

Performance Enhancement Techniques for Microstrip Antennas: Expert lecture at NITTTR Chandigarh, 2023-09-15

Vikram Kumar

Extended Wavelet Deep Convolutional Neural Network for Facial Expression: Invited talk at Chhatrapati Shivaji Institute of Technology, 2024-01-29

Application of Apriori Algorithm for feature reduction in sentiment classification: Invited talk at Chhatrapati Shivaji Institute of Technology, 2024-01-30

Placement Details

Fifteen (15) students got placements

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 05

Faculty Strength

Total: 13 (Six) - (Professor – 02, Associate Professor – 08 and Assistant Professor – 03)

GENETICS

Major Activities and Achievements

The Department of Genetics faculty members have made significant scientific contributions. Prof. P.K. Burma's group investigates the regulation of tapetum-specific promoters and promotes educational

initiatives for students and teachers. He has developed innovative, hands-on experiments for students, emphasizing 'Learning by Doing'. Prof. Surajit Sarkar's group focuses on the cellular and molecular basis of neurodegenerative brain disorders, identifying druggable targets, combinatorial targets, and drug repurposing to combat disease pathogenesis. Prof. Jagreet Kaur's group studies the genetic resistance to pathogens *Alternaria brassicae* and *Sclerotinia sclerotiorum* in Indian mustard, aiming to develop resistant crops. Prof. Tapasya Srivastava's lab explores cancer genetics and epigenetics, including early detection through liquid biopsy, with inter-departmental and inter-institutional collaborations. Dr. Kaustuv Datta's group has identified novel GTPase in the mitochondrial ribosomes which potentially respond to changes in ATP/ADP ratio and regulate cellular ability to perform respiratory functions. Dr. Aruna Naorem's group examines the role of regulatory proteins such as PPIases in developmental processes in *D. discoideum*. Newly recruited Prof. Manoj Prasad studies abiotic stress tolerance in foxtail millet, identifying SiHDA9's interaction with SiHAT3.1 and SiHDA19 to form a repressor complex. Prof. Amit Dutt's lab focuses on computational cancer genome analysis, functional characterization of novel leads, and the role of microbial agents in carcinogenesis. Prof. A.K. Pradhan's group at CGMCP developed CMS-based and GM-based productive hybrids, pure lines with improved quality and white rust resistance, and sequenced the brassica genome. Prof. Thelma's lab has provided the first exome-wide mutation spectrum for Mendelian forms of Parkinson's disease, demonstrated the hypomorphic effect of a variant in CENPJ in Seckel syndrome, highlighted genetic contributions to schizophrenia, and developed inhibitory molecules for rheumatoid arthritis candidate proteins.

Honours/Distinctions

Faculty

Prof. Amit Dutt: DBT Tata Innovation Fellowship award 2023, DBT Institute of Life Sciences, Sun Pharma Jury member for Research Awards.

Prof. Manoj Prasad: DST-SERB sponsored J.C. Bose National Fellowship.

Publications

Pant P and Kaur J (2023), Spray-Induced Gene Silencing of *SsOah1* and *SsCyp51* confers protection to *Nicotianabenthamiana* and *Brassica juncea* against *Sclerotinia sclerotiorum*, doi.org/10.1016/j.pmpp.2023.102109, 127, 102109

Verma R, Hamsa S, Mandal S and Kaur J (2023), Expression of Arabidopsis NPR1 (*AtNPR1*) in *Brassica juncea* var *Varuna* confers significant resistance against *Sclerotinia sclerotiorum* and *Alternaria brassicae*, doi.org/10.1016/j.pmpp.2023.102030, 126, 102030

Gandhi S, Bhushan A, Shukla U, Pundir A, Singh S, Srivastava T. (2023), Downregulation of lncRNA SNHG1 in hypoxia and stem cells is associated with poor disease prognosis in gliomas, [0.1080/15384101.2023.2191411](https://doi.org/10.1080/15384101.2023.2191411), 9, 1135-1153

Tandon S, Aggarwal P, Sarkar S (2024), Polyglutamine disorders: Pathogenesis and potential drug interventions, [oi: 10.1016/j.lfs.2024.122562](https://doi.org/10.1016/j.lfs.2024.122562), 344, 122562

Pragati, Sarkar S. (2024), Targeted upregulation of dMyc restricts JNK-mediated degeneration of dopaminergic neurons in the paraquat-induced Parkinson's disease model of *Drosophila*, [doi: 10.1016/j.neures.2023.10.005](https://doi.org/10.1016/j.neures.2023.10.005), 200, 57-62

Tandon S, Sarkar S. (2023), Glutamine stimulates the S6K/4E-BP branch of insulin signalling pathway to mitigate human poly(Q) disorders in Drosophila disease models, *oi: 10.1080/1028415X.2023.2253028.*, 1-12

Pragati, Sarkar S. (2023), Reinstated activity of human tau-induced enhanced insulin signaling restricts disease pathogenesis by regulating the functioning of kinases/phosphatases and tau hyperphosphorylation in Drosophila, *oi:10.1007/s12035-023-03599-y* (Impact factor: 5.1), 61, 982-1001

Desai S, Ahmad S, Bawaskar B, Rashmi S, Mishra R, Lakhwani D, Dutt A. (2024), Singleton mutations in large-scale cancer genome studies: uncovering the tail of cancer genome, *0.1093/narcan/zcae010*, 6, zcae010

Dharavath B, Butle A, Chaudhary A, Pal A, Desai S, Chowdhury A, Thorat R, Upadhyay P, Nair S, Dutt A (2024), Recurrent UBE3C-LRP5 translocations in head and neck cancer with therapeutic implications, *0.1038/s41698-024-00555-4*, 8, 63

Prustury, A, Panchal, A., Singh, R.K., Prasad, M. (2024), Major transcription factor families at the nexus of regulating abiotic stress response in millets: a comprehensive review, *ttps://doi.org/10.1007/s00425-024-04394-2*, 1-14

Jaiswal, V., Bandyopadhyay, T., Singh, R.K., Gahlaut, V., Muthamilarasan, M., Prasad, M. (2024), Multi-environment GWAS identifies genomic regions underlying grain nutrient traits in foxtail millet (*Setaria italica*), *ttps://doi.org/10.1007/s00299-023-03127-1*, 43, 6

Prasad, A., Sharma, S. & Prasad, M. (2024), Deeper look into viruses: replication intermediates do code, *ttps://doi.org/10.1007/s00299-023-03135-1*, 43, 52

Mondal, K., Singh, R.K., Prasad, M., Dey, N. (2024), Newly identified Pijx gene: a weapon against both seedling and panicle blast in rice, *ttps://doi.org/10.1007/s00299-024-03198-8*, 43, 105

Kumar, V., Singh, B., Singh, R.K., Sharma, N., Muthamilarasan, M., Sawant, S.V., Prasad, M. (2024), Histone deacetylase 9 interacts with SiHAT3.1 and SiHDA19 to repress dehydration responses through H3K9 deacetylation in foxtail millet, *ttps://doi.org/10.1093/jxb/erad425*, 75, pg 1098–1111

Yadav V, Naorem A (2023), Evidence for parvulin pinA-mediated control of cellular events in D. Discoideum by mutational analysis, *ttps://doi.org/10.47815/apsr.2023.10305*, 24, 549-563

Book Chapters

Burma PK (Eds: S.C. Lakhotia & H. A. Ranganath), (2024), Calculating genetic distances by analyzing recombination frequencies from a trihybrid cross; In: Experiments with Drosophila for Biology Courses, *Bengaluru, India*, Second Edition, Indian Academy of Sciences, ISBN: 978-81-950664-2-1, 95-102

Research Projects

Prof. Tapasya Srivastava: Indian Council of Medical Research, Evaluating Exhaled Breath Condensate (EBC) as a promising non-invasive method for identification of clinically relevant genetic mutations in lung cancer ₹ 70 lacs.

Prof. Surajit Sarkar: Ignite Life Science Foundation, Bangalore., A novel strategy for identification of modifiers and drugs to halt age-dependent trans-cellular propagation of pathogenic tau aggregates and associated impairments, ₹ 14.948 lacs.

Prof. Surajit Sarkar: SERB, New Delhi, "Deciphering the role of immune response Toll-pathway in mitigation of human tau mediated neurodegeneration in Drosophila disease models ", ₹ 48.19 lacs.

Prof. Manoj Prasad, DST-SERB, JC Bose National Fellowship, ₹ 95 Lacs

Seminars Organized

Dr. Sudha Babu, Director, Regulatory CMC, Spark Therapeutics, Philadelphia, FIAS Conversations#16 ; Current and future prospects of Gene therapy in treatment of (Rare) diseases, 17-04-2023

Prof. Sivaram VS Mylavarapu, Regional Centre for Biotechnology, Faridabad, FIAS Conversations#17; Faithfully promiscuous - a twist in the tail for dynein function during mitosis FIASConversations#17; Faithfully promiscuous - a twist in the tail for dynein function during mitosis, 24-05-2023

Dr. Anirban Basu, Scientist, National Brain Research Centre, Manesar, FIASConversations#18 ; Drug repositioning/repurposing: Promising strategy to develop therapy against viral infections, 24-06-2023

Dr. Navneet Kaur Matharu, "Assistant Professor, Bioengineering and Therapeutic Sciences University of California San Francisco Francisco, and Women Entrepreneur fellow at Innovative Genomics Institute at University of California ", Gene-Sutra: Modulating gene expression to treat genetic disorders, 07-06-2023

Prof. Shikha Lalorya, Department of Biochemistry, IISc Bangalore, The cohesin complex: a dynamic genome organizer with many functions., 21-03-2024

Seminar/Conference Presentations (National / International)

International

Jagreet Kaur

‘Comparative transcriptomics reveals the role of Coumarins in defense against *Alternaria brassicae*’ at Interactive meet on Molecular Intricacies of plant-associated microorganisms, 18-20 March, 2024 at Central Tribal University of Andhra Pradesh. 2024-03-19

‘Insights into the molecular mechanism of Alternaria blight resistance in the model host Arabidopsis’ at the National Symposium 'Genomics Revolution to Foster Advances and Innovations in Crop Improvement' on Feb. 27-29, 2024, at the School of Agricultural Biotechnology, Punjab Agricultural University. 2024-02-27

‘Understanding the host defense mechanisms against Alternaria brassicae infection’ at Symposium on Plant-Microbe Interactions during 24 – 25 November 2023 at Department of Molecular Biology and Biotechnology, Tezpur University. 2023-11-25

Tapasya Srivastava

‘Investigating epigenetic modulations in the hypoxic tumour microenvironment: an OMICS approach to identify drug targets’ at Indo-German Workshop-2023: Enabling Methodologies for Rational Design of Complex Systems organized by the University of Wurzburg, Germany. 2023-10-13

Aruna Naorem

‘To understand the mechanism of gene regulation underlying cell proliferation and differentiation in Dictyostelium discoideum’ at the 5th BioGroup-India Meeting, July 17-18, 2023 at JNCASR, Bengaluru. 2023-07-17

Pradeep Kumar Burma

‘Working with plant promoters: the story of AEG1’ at Advances and Innovations in Biotechnology for Sustainable Bioresources and Bioeconomy (AIBSBB2023) at AKS University, Satna, Madhya Pradesh. 2023-11-22

‘Playing with genes: Progress, promises and boundaries’ a public lecture at the Faculty of Life Sciences, Jamia Millia Islamia. 2024-02-27

Surajit Sarkar

‘From fruit fly to bedside: our attempts with Drosophila models of human neurodegenerative poly(Q) disorders’ at Chronological Genetic updates 2023-24 at Maharshi Dayanand University, Rohtak, Haryana. 2023-10-04

‘The translational prospect of Drosophila: lessons from fly models of human polyglutamine disorders’ at National workshop on Alternatives to higher animals in biological research at Department of Zoology, A.M.U., Aligarh - 202002 (U.P.). 2023-11-27

‘Life Sciences & Biotechnology’ a public talk at HRDC-Jawaharlal Nehru University, New Delhi. 2023-11-30

‘A tale of two formidable: Insulin pathway and polyQ mediated neurodegenerative disorders at Vistas in Life Sciences 2024 at School of Life Sciences, Jawaharlal Nehru University, New Delhi. 2024-01-23

‘Novel strategies to restrict trans-cellular spreading of pathogenic neurofibrillary tangles to mitigate progression of neurodegenerative tauopathies’ at Biospark-2024 at School of Life Sciences, Jawaharlal Nehru University, New Delhi. 2024-03-20

Kaustuv Datta

‘Multifaceted role of mitochondrial translation system in response to metabolic cues in Saccharomyces cerevisiae’ at Yeast India 2023, IISER Mohali. 2023-03-11

Extension and Outreach Activities

Social outreach

Tapasya Srivastava lab has extended its laboratory facilities to train 2 students from Gurukul Kangri University, Haridwar with no lab experience and from remote areas. This includes giving them hands-on experience as well as opening their minds to research thoughts and processes. Dr Aruna Naorem trained one INSA summer research fellow. Prof P K Burma mentored two undergraduate VC interns from DU colleges.

Ecasports

Ms. Prerna Aggarwal (Student of Prof. S. Sarkar) won the Best Poster Presentation Award in “Vistas in Life Sciences 2024, from 21 to 24 January, 2024”, organized by School of Life Sciences, Jawaharlal Nehru University, New Delhi. (Title of the poster: Exploring the potential of conserved immune response genes in mitigating human tau-mediated neurotoxicity in Drosophila disease models. (Abstract no. P81) Ritika Kapil

(Student of Dr. K. Datta) got the Best poster award in Yeast India Meeting at IISER Mohali during Nov 2023 Sanchit Gandhi (Student of Prof. T. Srivastava) was selected to present his work (poster) in the prestigious EMBO | EMBL Symposium: The non-coding genome conference organized in Heidelberg, Germany from 11th to 14th October 2023 Shruti Khanna (Student of Prof. T. Srivastava) was selected to present her work at the prestigious AACR-KCA Joint conference for Precision medicine organized in Seoul, Korea from 15th - 17th November 2023

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 02

Faculty Strength

Total: 06 (Six) - (Professor – 03, Associate Professor – 01 and Assistant Professor – 02)

Other Significant Information

Prof Surajit Sarkar:

Served as a Guest editor, The Journal of Visualized Experiments (JoVE): Method collection issue: Current Models and Methods in Traumatic Brain Injury Research (2023)

Prof Pradeep Burma:

Member of the International Scientific Committee organizing the 34th International Biology Olympiad held at Al Ain, Abu Dhabi, UAE, June 25 to July 12, 2023.

Was invited by Homi Bhabha Centre for Science Education, TIFR, Mumbai, to participate in the Resource Generation Camp for selecting students for IBO; Oct 11 to 13, 2023

Served as Team mentor for the United Arab Emirates contingent for the International Junior Science Olympiad held in Bangkok, Thailand, from Nov 30 to Dec 10, 2023.

Was nominated as a member of the Academic Committee of the National Institute of Immunology, New Delhi.

Served as Review Editor of the Experiments with Drosophila for Biology Courses manual. 2024. eds: S.C. Lakhotia & H. A. Ranganath. Second Edition, Indian Academy of Sciences, Bengaluru, India."

Prof Tapasya Srivastava:

Was invited to and served as a member of the Fellowship Expert Group of ICMR in 2023-2024 and all its related meetings.

Served as the Member Secretary of the Institutional Ethics Committee of FIAS, UDSC, and conducted meetings for the same.

Served as the member Secretary of the Institutional Animal Ethics Committee of FIAS, UDSC.

Served as a Member secretary of the meetings conducted for the establishment of the Nude Mice Facility at UDSC.

Served as the research committee member of students from St John's Hospital, Bangalore; Sir Ganga Ram Hospital and MAHE

Invited as the evaluator of the promotion of faculty at NISER, Kolkata.

Prof Amit Dutta:

Prof. Amit Dutta served as member of Scientific Advisory Committee.

MICROBIOLOGY

Major Activities and Achievements

The laboratories within the Microbiology Department are engaged in a variety of groundbreaking research areas. Prof. Swati Saha's lab delves into the DNA biology of *Leishmania* and the epigenetic processes regulating it. Prof. Rajeev Kaul's team investigates the role of *Peste des petits ruminants* (PPR) virus proteins in disease pathogenesis. Prof. Y.P. Khasa's research focuses on producing recombinant therapeutics using *E. coli* and *Pichia pastoris* expression hosts. Dr. Ashwini Chauhan's lab is dedicated to studying biofilm-associated infections. Dr. Ram Karan's group is discovering novel microbes and their biomolecules with applications in environmental, biomedical, and biotechnological fields. Dr. Vijay K. Verma's lab explores the molecular mechanisms of persistent infections that enable asymptomatic host-pathogen coexistence in human pathogens. Lastly, Dr. Pau Biak Sang's laboratory investigates the DNA repair proteins in *Candida glabrata*. Together, these research initiatives contribute to our understanding of infectious diseases and therapeutic development, enhancing the potential for innovative solutions in health and biotechnology.

Publications

Journals

Khanna, A., Saha, S.(2024), The SET7 protein of *Leishmania donovani* moderates the parasite's response to a hostile oxidative environment, *0.1016/j.jbc.2024.105720*, 300, 105720

Jain J, Chaudhary Y, Gaur SK, Tembhurne P, Sekar SC, Dhanavelu M, Sehrawat S, Kaul R.(2023), Peste des petits ruminants virus non-structural V and C proteins interact with the NF-B p65 subunit and modulate pro-inflammatory cytokine gene induction, *0.1099/jgv.0.001907*, 104

Chaudhary Y, Jain J, Gaur S K, Tembhurne P., Chandrasekar S., Dhanavelu M., Sehrawat S., Kaul R.(2023), Nucleocapsid Protein (N) of Peste des petits ruminants Virus (PPRV) Interacts with Cellular Phosphatidylinositol-3-Kinase (PI3K) Complex-I and Induces Autophagy., *0.3390/v15091805*, 15, 1805

Chauhan S, Khasa Y P (2023), Challenges and Opportunities in the Process Development of Chimeric Vaccines., *0.3390/vaccines11121828*, 11, 1823

Babbal, Mohanty S, Khasa Y P (2024), Designing Ubiquitin-like protease 1 (Ulp1) based nano biocatalysts: A promising technology for SUMO fusion proteins., *0.1016/j.ijbiomac.2023.128258*, 255, 128258

Sang PB, Jaiswal RK, Lyu X, Chai W.(2024), Human CST complex restricts excessive PrimPol repriming upon UV induced replication stress by suppressing p21, *0.1093/nar/gkae078*, 13

Gupta, N., Kumar, A., Verma, V.K. (2023), Strategies adopted by gastric pathogen *Helicobacter pylori* for a mature biofilm formation: Antimicrobial peptides as a visionary treatment, *0.1016/j.micres.2023.127417*, 273, 127417

Cherian RM, Varghese RT, Antony T, Malhotra A, Kargarzadeh H, Chauhan SR, Chauhan A, Chirayil CJ, Thomas S(2023), Non-cytotoxic, highly functionalized cellulose nanocrystals with high crystallinity and thermal stability derived from a novel agromass of *Elettaria cardamomum*, using a soft and benign mild oxalic acid hydrolysis, *0.1016/j.ijbiomac.2023.126571*, 253, 126571

Books/Book Chapters

Mohanty, S., Babbal, Khasa, Y.P., (2023), Heterologous Gene Expression in *Pichia pastoris*: Success Stories and Commercial Ventures, *Singapore*, Springer, 978-981-19-8852-3, 513-569

Kirti Sinha, Pau B. Sang, Priyanka Sharma, Rishi K. Jaiswal, (2023), DNA Replication Stress and Genome Instability in Breast Cancer. (Book Chapter) Drug and Therapy Development for Triple Negative Breast Cancer, *USA*, Wiley, 9783527351756, 35-64

Research Projects

Pau Biak Sang, ICMR, A novel method for rapid detection of antimicrobial resistance, 91.16 Lacs

Swati Saha, BIRAC, Swati Saha, Fostering Innovation and technology development through BioIncubation, 444.67 Lacs

Swati Saha, SERB, Swati Saha, Investigating the roles of SET26 and SET27 in the protozoan parasite *Leishmania donovani*, 68.89 Lacs

Swati Saha, DBT, Swati Saha, Towards identifying parasite-specific proteins involved in DNA replication in the protozoan *Leishmania donovani*, 68.99 Lacs

Rajeev Kaul, DSR-SERB, Rajeev Kaul, Y.P Khasa, Center of Antibody Engineering: Center for Immuno-Diagnostics/ Therapeutics Veneering technologies (CIVET), 187 Lacs

Rajeev Kaul, DBT, Rajeev Kaul, Y.P Khasa, Specific Single domain antibodies (sdAbs) against antimicrobial resistant Mastitis pathogen for clinical therapeutic use in dairy animals, 59.6 Lacs

Vijay K. Verma, ICMR, Vijay K. Verma, Unravelling the Mystery of Bacterial Persistent Infection: Genome-wide Identification and characterization of Toxin-Antitoxin systems of *Helicobacter pylori*, 47 Lacs

Seminars Organized

Art of Living Staff, Art of living, “Introductory Session Lecture” by Art of Living under the aegis of “Har Ghar Dhyani”, 23-06-2023

Extension and Outreach Activities

The Department conducted several workshops for college students. In these workshops students received hands-on training in basic molecular biology techniques, animal cell culture techniques, fermentation technology, and use of HPLC. Under these workshops, a total of 70 students have received direct hands-on training over the past year.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 05

Faculty Strength

Total: 07 (Seven) - (Professor – 03, Associate Professor – 02 and Assistant Professor – 02)

PHYSICAL EDUCATION & SPORTS SCIENCES

Major Activities and Achievements

The institute has organized a variety of events and programs throughout the year, starting with an interaction session on tobacco control and the Annual Athletic Meet on April 20, 2023. The Annual Day and Award Ceremony followed on April 27, 2023, and National Technology Day was celebrated on May 11, 2023. Kids Athletics Day was held on May 7, 2023, and an Athletics Summer Camp ran from June 1 to June 30, 2023. In celebration of the 9th International Yoga Day, a month-long “Yoga Camp for the Community” was conducted. From July 5 to July 7, 2023, a Special Inclusion Training Program on Integrated Sports and Skill Development took place. The 36th Foundation Day and an Alumni Meet were organized on August 3, 2023. The 77th Independence Day was celebrated on August 15, 2023, and a Grassroot Level Gymnastic Championship occurred on August 24-25, 2023. On September 12 and 13, 2023, sessions on the Code of Conduct, Moral Values and Ethics, and the Art of Living were conducted. A Swachhta Seva Abhiyan program was held on October 1, 2023, under the Ek Tarik Ek Ghanta campaign. Ethnic Day was celebrated on November 10, 2023. Republic Day flag hoisting took place on January 26, 2024, and a pledge ceremony themed 'Voice of Youth–Viksit Bharat @2047 Campaign' was organized on January 25, 2024, coinciding with Voters' Day. Students participated in a live telecast of 'Pariksha Pe Charcha' on January 29, 2024. The University of Delhi established an Evaluation Center for UG Courses, and 80 students volunteered for Golf and Cycling events in Delhi. A lecture on 'NET/SLET' was held on March 12, 2024, followed by 'NCC Mahotsav Aarambh-24' on February 28, 2024. A two-day training program on Hindi typing occurred on March 14-15, 2024, and 'World Forestry Day' was observed on March 21, 2024. A training program on Research Methodology: Statistical Data Analytics through SPSS Software was organized from March 26-28, 2024, and the State Gymnastic Championship was held by the Delhi Olympic Association from March 28-31, 2024.

Publications

Journals (UGC)

Prof. (Dr.) Sandeep Tiwari, Prof. (Dr.) Sandhya Tiwari, Anshuman Shukla(2023), A Comparative Study On Individual and Team Athletes On Flow State, Shodhasamhita : Journal of Fundamental & Comparative Research, A, IX, Book No.6

Prof. (Dr.) Sandeep Tiwari, Prof. (Dr.) Sandhya Tiwari, and Anshuman Shukla,(2023), An Examination on Experience of Flow Among Different Positions Among Volleyball Players, Shodhasamhita : Journal of Fundamental & Comparative Research, A, IX, Book No.6

Sandeep Gupta, Prof. Sandhya Tiwari and Prof. Sandeep Tiwari(2023), A Study on Selected Physiological Variables Among 60- to 64-year-Old Physically Active and Sedentary Male Senior Citizens, A, CIV,

Sandeep Gupta, Prof. Sandhya Tiwari and Prof. Sandeep Tiwari(2023), A Study on Quality of Life Among Physically Active and Sedentary Male Senior Citizens, Bhairavi, A,

Tapesh Yadav, Dr. Sandhya Tiwari, Dr Yogesh Chander(2023), Reliability of the Physical Activity Enjoyment Scale Questionnaire in Indian College Girl Students Population, IJFANS International Journal of Food and Nutritional Sciences, A, 12, Page No. 2715

Prof. (Dr.) Sandeep Tiwari, Prof. (Dr.) Sandhya Tiwari, Anshuman Shukla(2023), A Comparative Study On Individual and Team Athletes On Flow State, Shodhasamhita : Journal of Fundamental & Comparative Research, A, IX, Book No.6

Prof. (Dr.) Sandeep Tiwari, Prof. (Dr.) Sandhya Tiwari, and Anshuman Shukla(2023), An Examination on Experience of Flow Among Different Positions Among Volleyball Players, Shodhasamhita : Journal of Fundamental & Comparative Research, A, IX, Book No.6

Sandeep Gupta, Prof. Sandhya Tiwari and Prof. Sandeep Tiwari(2023), A Study on Selected Physiological Variables Among 60- to 64-year-Old Physically Active and Sedentary Male Senior Citizens., A, CIV,

Sandeep Gupta Prof. Sandhya Tiwari and Prof. Sandeep Tiwari(2023), A Study on Quality of Life Among Physically Active and Sedentary Male Senior Citizens, A,

Prof. Sarita Tyagi(2023), Comparative Study on Sports anxiety irrespective of gender differences among badminton and tennis players, Journal of Sports Science and Nutrition, A, Vol-4(1), Page No-162-164

Prof. Sarita Tyagi(2023), A Comparative Analysis of Body composition and life style among male and female teachers of Delhi University, International Journal of Physical Education, Sports and Health, A, 10(2), page No 21-25

Prof. Sarita Tyagi(2023), A Comparative analysis of life style and health status among male and female teachers of Delhi University, International Journal of Physical Education, Sports and Health, A, 10(2), Page 18-20

Awadesh Kumar Shirotriya, Lalit Sharma and Amrendra pandey(2023), What Motivates Students to Physical Activity: Development and Validation of the students Physical Activity Motivation Scale, Journal of Health Management (1-9), 0.1177/0972-634231196942,

Abhishek Tripathi, Lalit Sharma, Meenakshi, Shivam Thapa(2023), Effect of Sixteen Weeks self talk intervention for improving self confidence and performance among artistic gymnastic players, European Chemical Bulletin, Index-Bi-Scopus, A, XII, 5551 5558

Prof. Lalit Sharma(2023), Exploring the Barriers to Physical Education opportunities in India's School: A Study of Parental Perceptions after the unprecedented performance at the Tokyo Olympics, Education Sciences, November, A, 1184,

Dr. Meenakshi, Dr. Ajit, Dr. Lalit Sharma(2023), Application of Statistical Software for Data Analysis in Physical Education, Friends Publications (India), A,

Dr. Meenakshi(2023), Effect of 32 Weeks of Training to reduce fear of injury in Artistic Gymnastic, Shodh-Prabha, A, 48,

Mr. Rishabh Singh, Dr. Dharmender Kumar(2023), Meta-Analysis on Mental Health of Athletes During Covid – 19 Pandemic, SHODHAK, ISSN – 0302-9832, Impact Factor – 7.75, A, 53, 38-41

Kaustabh monikonwarm, Dr. Dharmender Kumar(2023), Relationship of Fitness to Academic Stress and IQ Among Higher Secondary Level School Students, SHODH DISHA, A, 337-341

Mohit Morya, Dr. Dharmender Kumar(2023), A Systematic Review: Physical Health of Athletes During Covid Pandemic, Shodhak, A, 53, 80-84

Madhurjya Baruah, Dr. Dharmender Kumar(2023), Impact of Online Physical Education Classes compared to offline learning on aggression, anxiety and stress among Higher Secondary level School Students in North-Eastern State, Shodhak, A, 53, 142-147

Utkarsh, Dr. Dharmender Kumar(2023), The Effect of Sun salutation practice on Sleep Quality in Cricket Players, Shodhak, A, 53, 140-144

Placement Details: 160

Extension and Outreach Activities

NO. OF STUDENTS NAMES POSITION LIGHTWEIGHT WOMEN DOUBLE SCULL (LW2X) (PROF. PARDEEP KUMAR) 19th Asian Games Hangzhou, China 01 KIRAN Represented India (International) Women Double Scull (W2X) 39TH SENIOR NATIONAL ROWING CHAMPIONSHIP 01 KIRAN Gold Women Double Scull (W2X) 36TH NATIONAL GAMES 01 KIRAN Silver Lightweight Women Double Scull (LW2X) 40TH SENIOR NATIONAL ROWING CHAMPIONSHIP 01 KIRAN Silver HANDBALL (PROF. ANIL KR. VANAIK) (MR. SHUBHANG NEGI) Inter-College (MEN) 16 HARSH KUMAR SURYA PRATAP YADAV KUNAL MD SADIQ YOGESH KUMAR AMAN PUNIA UMESH SINGH UMANG RANA RAHUL KUMAR ARVIND KUMAR SATYAM BABLOO YEADAV SHAGUN DABAS KRISH KHAPRA ABHISHEK YADAV SEHDEV 1st BASEBALL (PROF. GAURI CHAKRABORTY) All India Inter-University 02 ANKITA KUMAR JATIN BHALOTHIA 3rd PROF. DHANANJOY SHAW JUDO (MS. RABIA HUSAIN) Delhi University Inter-College Championship 05 AMISHA TOKAS (1st) KHUSHI (3rd) HEMANT SOLANKI (3rd) GUNJAN (3rd) RONAK PAREVA (3rd) 1st and 3rd KABADDI (W) TOURNAMENT (DR. DHARMANDER KUMAR) (MR. SAHIL DAHIYA) Inter-College Kabaddi Women Tournament 12 SHRUTI RAUTELA POOJA KHUSHI SHASWATY ROY CHANDNI KRISHNA ANJALI NEHA KUMARI KAJAL SHAMA ALI RITIKA POOJA LAXMI 2nd KABADDI (M) TOURNAMENT (DR. DHARMANDER KUMAR) (MR. SAHIL DAHIYA) Inter-College Kabaddi Men Tournament 12 ANIKET ABHILASH THAKUR SIDDHARTH RANA DEEPANSHU KAUSHIK VIJAY KUMAR MANDAL NISHANT NITIN TANWAR RAGHAV RAJ RUPESH TANWAR ARJUN BIRENDER SINGH RANA VARUN KUMAR YADAV 1st GYMNASTICS (PROF. SAMIRAN CHAKRABORTY, PROF. LALIT SHARMA, MR. ABHISHEK TRIPATHI) State Gymnastic Championship 02 ANOOP (1 Gold, 1 Silver, 1 Bronze) JITENDER (2 Silver and 3 Bronze). 1 Gold. 3 Silver, 4 Bronze MEN'S HOCKEY (PROF. SARITA TYAGI) MS. NEHA KUMARI Padmashree Shyamlal Hockey Tournament 18 CHIRANJEEVI GURMUKH BHUPENDER SHESHNATH SAHIL RAM KUMAR CHANDRA SHEKHAR FARMAN RAVI KUMAR PRATEEK RITIK SHUBHAM SAKSHAT DEEPAK VIKAS PRAVEEN PARAS AKSHAY Semi-Final MEN'S HOCKEY (PROF. SARITA TYAGI) Inter- College Hockey Championship 18 CHIRANJEEVI GURMUKH BHUPENDER (Univ. Rep.) SHESHNATH (Univ. Rep.) SAHIL RAM KUMAR (Univ. Rep.)

CHANDRA SHEKHAR FARMAN (Univ. Rep.) RAVI KUMAR PRATEEK (Univ. Rep.) RITIK SHUBHAM SAKSHAT DEEPAK VIKAS PRAVEEN PARAS AKSHAY 1st MEN'S HOCKEY (PROF. SARITA TYAGI) MS. NEHA KUMARI SPORTECH'24 IIT Delhi 15 CHIRANJEEVI GURMUKH BHUPENDER SHESHNATH SAHIL RAM KUMAR CHANDRA SHEKHAR FARMAN RAVI KUMAR PRATEEK RITIK SHUBHAM SAKSHAT DEEPAK VIKAS Winner YOGA (PROF. TARAK NATH PARMANIK) Spardhaa – The Sports Fest 01 JAGRITI UPADHYAY (NON-RHYTHMIC YOGA) 2nd YOGA (PROF. TARAK NATH PARMANIK) Spardhaa – The Sports Fest 01 BHAWNA (NON-RHYTHMIC YOGA) 2nd YOGA (PROF. TARAK NATH PARMANIK) 4th State Level Yogasana Sports Championship 2023 01 GAUTAM (RHYTHMIC PAIR) 1st YOGA (PROF. TARAK NATH PARMANIK) 4th State Level Yogasana Sports Championship 2023 01 GAUTAM (ARTISTIC SINGLE) 1st FENCING (MR. ALOK SHARMA) DELHI STATE CHAMPIONSHIP 01 PRIYA GOSWAMI - Bsc VIth Sem 3rd ATHLETICS (MR. ALOK SHARMA) Inter-College 2023 01 HARSHLEEN KAUR (4*400M) RELAY 2nd SHOOTING (MR. ALOK SHARMA) 66th National Shooting Championship Junior Team 50m 01 HARSHLEEN KAUR 2nd SHOOTING (MR. ALOK SHARMA) Inter College Shooting Championship 2023 01 HARSHLEEN KAUR 2nd WOMEN'S FOOTBALL (PROF. MAN SINGH) JANKI CUP 2024 05 BHAWNA YADAV (B.P.ED 1ST YEAR) RITIKA REDHU (B.P.ED 1ST YEAR) LAKSHMI VERMA (B.P.ED 1ST YEAR) ANJALI BALIYAN (B.SC. 3RD YEAR) NAMRATA KAUR (B.SC. 3RD YEAR). Winner FOOTBALL (DR. MAN SINGH) INTER COLLEGIATE FOOTBALL (WOMEN) 18 NAMRATA KAUR BHAWNA YADAV RITIKA REDHU LAKSHMI VERMA ANJALI BELIYAN SHRUTI RAUTELA NIDHI ANJU NAMKIT LEPCHA BATHEMSAT DAGA GANGA VYAS ANJALI RATHYAL SHALINI SAHU PINKI HEMA NEGI SOMVATI SONAM MEENAKSHI 3rd FOOTBALL (DR. MAN SINGH) DELHI YOUTH CHAMPIONSHIP 2023-2024 19 VIPIN KHALKHO RUPESH MONDAL SANJAY SINGH ANKUR JORWAL HARSH MOHIT KUMAR TENZING CHAMPBELL ARIF KHAN ANIKET SATVIK MAAN PRAVEEN KR YADAV YOGESH KUMAR PRATIK PRAKASH YOGENDRA SAHU KAMAL SINGH DEVASHISH SOREN GAURAV CHANDRA RAVI KUMAR MD. ADIL SHAH 3rd KHO-KHO PROF.(MRS.) GAURI CHAKRABORTY SENIOR NATIONAL 01 NANDITA PREMI (B.P.Ed.) 3rd HOCKEY WOMEN (PROF. SARITA TYAGI) 10th PADAMSHREE SHYAM LAL MEMORIAL INVITATIONAL HOCKEY TOURNAMENT 18 SANJANA (M.P.ED. II Year) KANCHAN PARIHAR (M.P.ED Ist Year) KOMAL (M.P.ED Ist Year) MEENAKSHI (M.P.ED IInd Year) ANJALI (B.P. Ed. II Year) HEMA NEGI (B.P. Ed. I Year) SOMVATI (B.P. Ed. I Year) PINKI (B.P. Ed. I Year) NEHA RANI (B.SC. III Year) SHALINI SAHU (B.SC. III YEAR) NAMRATA KAUR (B.SC. III Year) RUKSAR (B.SC. II Year) 1st HOCKEY WOMEN (PROF. NEHA SHARMA) JANKI CUP 2024 08 SANJANA (M.P.ED. II Year) KANCHAN PARIHAR (M.P.ED Ist Year) ANJALI (B.P. Ed. II Year) HEMA NEGI (B.P. Ed. I Year) SOMVATI (B.P. Ed. I Year) PINKI (B.P. Ed. I Year) NEHA RANI (B.SC. III Year) SHALINI SAHU (B.SC. III YEAR) 1st

PLANT MOLECULAR BIOLOGY

Major Activities and Achievements

The period from April 1st, 2023, to March 31st, 2024, has been an exceptionally fruitful year for the Department of Plant Molecular Biology. During this period, the faculty has made significant strides in various research areas, including abiotic stress, epigenetics, biotic stress, light signaling, reproductive

biology, calcium signaling, transcriptomics, and metabolomics involving plant models such as rice, wheat, tomato, chickpea, Arabidopsis, tobacco, soybean, among others. Their efforts have culminated in the publication of numerous research articles in high-ranking journals. Several faculty members received accolades from distinguished national academies, including the Indian National Science Academy (INSA) and the National Academy of Sciences, India (NASI), in recognition of their outstanding contributions to the field of plant science. Additionally, this year marked a notable achievement as Professor Saurabh Raghuvanshi hosted the 17th Annual International Biocuration Conference, the first of its kind to be organized in India. The department also successfully secured substantial funding from prestigious bodies including the Science and Engineering Research Board (SERB), Council of Scientific and Industrial Research (CSIR), Department of Biotechnology (DBT), and Institute of Eminence (IOE) for various research initiatives. On the infrastructural front, significant upgrades were made to the departmental office, seminar room, faculty room, and washrooms. Several greenhouses were transformed into advanced plant growth facilities equipped with LED PAR lights, several automated controls, and an efficient cooling system. Furthermore, in line with the increased M.Sc. student intake from 16 to 26, a new state-of-the-art, multipurpose, smart M.Sc. laboratory has also been developed.

Honours/Distinctions

Faculty

Prof. Anil Grover: INSA Senior Scientist fellowship given by INSA in the year 2023

Prof. Girdhar K. Pandey: Prof. Shri Ranjan Memorial Award by

National Academy of Sciences (NASI) in the year 2023

Publications

Journals

Bhatnagar A, Burman N, Sharma E, Tyagi A, Khurana P, Khurana JP (2023), Two splice forms of OsbZIP1, a homolog of AtHY5, function to regulate skotomorphogenesis and photomorphogenesis in rice, *Plant Physiol*, 193, 426-447. doi:0.1093/plphys/kiad334,

Chowdary KVSKA, Saini R, Singh AK (2023), Epigenetic regulation during meiosis and crossover, *Physiol Mol Biol Plants*. 29, 1945-1958. 0.1007/s12298-023-01390-w,

Dhingra Y, Gupta S, Gupta V, Agarwal M, Katiyar-Agarwal S (2023), The emerging role of epitranscriptome in shaping stress responses in plants, *Plant Cell Rep*. 42, 1531-1555. 0.1007/s00299-023-03046-1,

Dhingra Y, Lahiri M, Bhandari N, Kaur I, Gupta S, Agarwal M, Katiyar-Agarwal S (2023), Genome-wide identification, characterization, and expression analysis unveil the roles of pseudouridine synthase (PUS) family proteins in rice development and stress response, *Physiol Mol Biol Plants* 29, 1981-2004. 0.1007/s12298-023-01396-4,

Ghosh S, Dahiya M, Kumar A, Bheri M, Pandey GK (2023), Calcium imaging: a technique to monitor calcium dynamics in biological systems, *Physiol Mol Biol Plants*, 29, 1777-1811. 0.1007/s12298-023-01405-6,

- Malik N, Basu U, Srivastava R, Daware A, Ranjan R, Sharma A, Thakro V, Mohanty JK, Jha UC, Tripathi S, Tyagi AK, Parida SK (2023), Natural alleles of Mediator subunit genes modulate plant height in chickpea, *Plant J.* 116, 1271-1292. *0.1111/tpj.16423*
- Mishra S, Ganapathi TR, Pandey GK, Foyer CH, Srivastava AK (2023), Meta-Analysis of Antioxidant Mutants Reveals Common Alarm Signals for Shaping Abiotic Stress-Induced Transcriptome in Plants, *Antioxidants & Redox Signaling*, 41, 1-3. *0.1089/ars.2023.0361*
- Singh A, Singhal C, Sharma AK, Khurana P (2023), Identification of universal stress proteins in wheat and functional characterization during abiotic stress, *Plant Cell Rep.* 42, 1487-1501, *0.1007/s00299-023-03043-4*,
- Wadhwa N, Singh D, Yadav R, Kapoor S, Kapoor M (2023), Role of TRDMT1/DNMT2 in stress adaptation and its influence on transcriptome and proteome dynamics under osmotic stress in *Physcomitrium patens*, *Physiol Plant* 175, e14014, *0.1111/ppl.14014*,
- Yadav M, Panwar R, Rustagi A, Chakraborty A, Roy A, Singh IK, Singh A (2023), Comprehensive and evolutionary analysis of *Spodoptera litura*-inducible Cytochrome P450 monooxygenase gene family in *Glycine max* elucidate their role in defense, *Front Plant Sci.* 14, 1221526. *0.3389/fpls.2023.1221526*, 14, 1221526
- Yajnik KN, Gupta SRR, Taneja M, Singh IK, Singh A (2023), Deciphering mitogen activated protein kinase pathway activated during insect attack in *Nicotiana attenuata*, *J Biomol Struct Dyn.* Epub ahead of print. *0.1080/07391102.2023.2263795*
- Gambhir P, Raghuvanshi U, Kumar R, Sharma AK (2024), Transcriptional regulation of tomato fruit ripening, *Physiol Mol Biol Plants.* 30(2):289-3030. *1007/s12298-024-01424-x*
- Kumari A, Sharma P, Rani M, Laxmi V, Sahil, Sahi C, Satturu V, Katiyar-Agarwal S, Agarwal M (2024), Meta-QTL and ortho analysis unravels the genetic architecture and key candidate genes for cold tolerance at seedling stage in rice, *Physiol Mol Biol Plants.* 30(1):93-108. *0.1007/s12298-024-01412-1*
- Kumari M, Checker VG, Kathpalia R, Srivastava V, Singh IK, Singh A (2024), Metabolic engineering for enhanced terpenoid production: Leveraging new horizons with an old technique, *Plant Physiol Biochem.* 210:108511. *0.1016/j.plaphy.2024.108511*
- Kumari M, Yagnik KN, Gupta V, Singh IK, Gupta R, Verma PK, Singh A (2024), Metabolomics-driven investigation of plant defense response against pest and pathogen attack, *Physiol Plant.* 176(2):e14270. *0.1111/ppl.14270*
- Mahiwal S, Pahuja S, Pandey GK (2024), Review: Structural-functional relationship of WRKY transcription factors: Unfolding the role of WRKY in plants, *Int J Biol Macromol.* 257:128769. *0.1016/j.ijbiomac.2023.128769*
- Naresh M, Purkayastha A, Dasgupta I (2024), P4 protein of an Indian isolate of rice tungro bacilliform virus modulates gene silencing, *Virus Genes*, 60, 55-64. *0.1007/s11262-023-02039-2*
- Sanyal SK, Pandey GK (2024), ERF111/ABR1: An AP2 domain transcription factor serving as a hub for multiple signaling pathways, *Journal of Plant Growth Regulation*, *Frontiers in Plant Science*, 15, 1400006. 1-14, *0.1007/s00344-023-11225-3*

Singh A, Gurusamy D and Singh IK (2024), Editorial: Calcium signaling: an early plant defense response against pests and pathogens, *Frontiers in Plant Science*, 15, 1400006. 0.3389/fpls.2024.1400006, 15, 1400006

Singh A, Kumar S, Yadav M, Kumari M, Singh IK (2024), Tailored midgut gene expression in *Spodoptera litura* (Lepidoptera: Noctuidae) feeding on *Zea mays* indicates a tug of war, *rthropod-Plant Interactions*, 18, 547-567. 0.1007/s11829-024-10048-7

Singh N, Ravi B, Saini LK, Pandey GK (2024), Voltage-dependent anion channel 3 (VDAC3) mediates *P. syringae* induced ABA-SA signaling crosstalk in *Arabidopsis thaliana*, *Plant Physiol Biochem* 206, 108237, 0.1016/j.plaphy.2023.108237,

Thakro V, Varshney N, Malik N, Daware A, Srivastava R, Mohanty JK, Basu U, Narnoliya L, Jha UC, Tripathi S, Tyagi AK, Parida SK (2024), Functional allele of a MATE gene selected during domestication modulates seed color in chickpea, *Plant J.* 117, 53-71, 0.1111/tpj.16469,

Wadhwa N, Kapoor S, Kapoor M (2024), *Arabidopsis* T-DNA mutants affected in TRDMT1/DNMT2 show differential protein synthesis and compromised stress tolerance, *FEBS J.* 291, 92-113, 0.1111/febs.16935,

Xu Z, Pandey GK, Ali Z, Zhang D (2024), Editorial: Molecular basis of stress resistant signal transduction in plants: a biotechnological intervention to develop climate-resilient crops, *Front Plant Sci.* 15, 1356520. 0.3389/fpls.2024.1356520,

Yadav M, Singh A (2024), Reprogramming of Glycine max (Soybean) Proteome in Response to *Spodoptera litura* (Common Cutworm)-Infestation, *Journal of Plant Growth Regulation* 43, 1934–1953. 0.1007/s00344-023-11232-4

Books/Book Chapters

Dr. Archana Singh, Brijesh Rath, Anita K. Verma, Indrakant K. Singh, (2023), *Natural Product Based Drug Discovery Against Human Parasites: Opportunities and Challenges*, Singapore, Springer Nature, 978-981-19-9605-4, XIX, 596

Pahuja M, Rahi M, Das P, Mittal P, Singh A, Ngasainao MR, (2023), Secondary Metabolites of Plant Origin in Parasitic Manifestations. In: Singh, A., Rath, B., Verma, A.K., Singh, I.K. (eds) *Natural Product Based Drug Discovery Against Human Parasites*, Singapore, Springer Nature, 978-981-19-9605-4, 61–87

Yajnik K, Yadav M, Kumari M, Gupta V, Singh IK, Singh A, (2024), Genome Editing and Plant-Pathogen Interaction. In: Verma, P.K., Mishra, S., Srivastava, V., Mehrotra, S. (eds) *Plant Pathogen Interaction*, Singapore, Singapore, 978-981-99-4890-1, 311–340

Research Projects

Dr Kamal Kumar, SERB, DST, India, Identification of the chickpea race-specific resistance genes against fusarium wilt disease and generation of molecular markers for breeding, 28.71 lakhs

Prof. Surekha Katiyar Agarwal, CSIR (EMR-II), India, Unravelling the role of RNA Pseudouridylation in regulating heat stress response in plant., 18.50 lakhs

Prof. Surekha Katiyar Agarwal, SERB (POWER), DST, India, Dissecting the role of HSFC1b (Heat Shock Transcription Factor C1b) in Regulation of Flag Leaf Senescence in rice., 41.56 lakhs

Prof. Saurabh Raghuvanshi, DBT, Mainstreaming rice landraces diversity in varietal development through genome-wide association studies: A model for large-scale utilization of gene bank collection of rice” under mission programme of “Characterisation of genetic resources, 603.04 lakhs

Prof. Girdhar K. Pandey, DBT, Precise Gene Editing in Potassium Uptake/Distribution on Machinery to Develop Mineral Nutrient Deficiency Tolerant Rice” [Hi“K”E], DBT, India, 85 lakhs

Prof. Girdhar K. Pandey, SERB, Deciphering the role of CBL-CIPK in regulating WRKY transcription factor in abiotic stress responses, 38.53 lakhs

Prof. Sanjay Kapoor, DBT, Deciphering the Role of Translational Regulation in Embryo and Endosperm Differentiation During Early Seed Development in Rice Category: Major Project, 87.46Lakhs

Seminars Organised

PMB Special lecture entitled, “The Indian Biological Data Center: The step before the leap” by Prof. Saurabh Raghuvanshi IBDC, RCB and the department of Plant Molecular Biology on 13-2-2023.

PMB Guest lecture entitled, “Machine Learning, Graph Algorithms, Big Data, Supercomputing & Statistics in BioMedical Informatics” by Dr. Abhishek Narain Singh, Computer Science & Business department The Global American University Schiller at Heidelberg Campus on 12-9-2023.

PMB Guest lecture entitled, “Mechanisms and Consequences of Noise in Gene Expression in Eukaryotes” by Prof. Sanjay Tyagi New Jersey Medical School, Rutgers University, United States on 27-10-2023.

PMB Guest lecture entitled, “Sensing Light Direction in Plants: The Importance of Intercellular Air Channels to Enable Phototropism” by PROF. Christian Fankhauser, University of Lausanne, Switzerland on 15-1-2024.

PMB Guest lecture entitled, “Plasmodium fertilization: Role of plant like gamete fusogens” by Dr. Sudhir Kumar, Iowa State University, Ames, IA, USA on May 06, 2024.

Conferences Organized

Prof. Saurabh Raghuvanshi, Professor, DBT, DST-SERB, 17th Annual International Biocuration Conference, 08-03-2024

The Department as its regular annual feature, organized the 36th DPMB Annual Symposium, 13-03-2024

Seminar/Conference Presentations (National / International)

International

Sanjay Kapoor

Understanding Role of OsMADS29 In Early Seed Development & Manipulating Its Expression Domain to Reduce Grain Chalkiness. 20th International Symposium on Rice Functional genomics.UAS, GKVK Bangalore, India on 2023-11-03

Saurabh Raghuvanshi

Biocuration for ensuring national food security. 17th Annual International Biocuration Conference (AIBC-2024) at Centre for Biotechnology (RCB), Faridabad and Department of Plant Molecular Biology, University of Delhi South Campus on 2024-03-05.

Pivotal role of miRNA genes in orchestrating drought stress responses in rice. 20th International Symposium on Rice Functional Genomics at University of Agricultural Sciences, Bangalore on 2023-11-03.

National

Sanjay Kapoor

Understanding Fundamental of Gene Regulatory Mechanisms by delineating the role of OsMADS29 in Seed Development in Rice. Prof. Udayakumar Memorial Lecture under the name ConSEPT, GKVK Bangalore, India on 2023-09-30.

High Throughput Transcriptomics Leading to the Identification and Delineation of a Major Developmental Regulator. SGTB Khasla College Alumni Meet, University of Delhi, India on 2024-02-13.

Identification and Delineation of OsMADS29, a Major Regulator Seed Development in Rice. IHBT Invited Lecture, at Institute of Himalayan Bio-technology, Palampur, Himachal Pradesh, India on 2024-03-15.

Girdhar Kumar Pandey

Calcium and ROS signaling mediated inter-organelle communication in plants: Role of protein kinases and voltage dependent anion channel. International ICGEB-CONNECT: Science, Training and Career Building, ICGEB Alumni Meet, at BICGEB, New Delhi and Banaras Hindu University, Varansi, UP on 2023-11-27.

Calcium mediated oxidative stress signaling in plants: Involvement of protein kinases and voltage dependent anion channel. National conference on Sustainability & Interdisciplinary in Chemical Sciences (SICS) at ISSER, Kolkata on 2023-07-13.

Calcium and ROS mediates mitochondrial retrograde signaling during oxidative stress in plants, National Conference of Plant Physiology. Physiological and Molecular Approaches for Climate Smart Agriculture meeting at Dr. B.P. Pal Auditorium, ICAR-Indian Agricultural Research Institute, New Delhi on 2023-12-09.

What are we learning about rice dual-specificity phosphatases in nutrient deficiency and stress management? A functional genomics perspective. International Conference on Plant Genetic and Genomics at National Agricultural Sciences Complex, New Delhi on 2024-02-16.

Saurabh Raghuvanshi

Genome Data mangement in India. Training on Management of genomic data-Indian perspectives meeting at ICAR-National Bureau of Plant Genetic Resources, New Delhi on 2023-09-18.

Life science data regulation in india. Life Science Data Opportunities at National Agri-Food Biotechnology Institute (NABI) on 2024-03-13.

MicroRNA regulated drought stress response in rice. International Symposium on Plant Biology and Functional Genomics (ISPBF 2024) at Department of Plant Sciences, School of Life Sciences, University of Hyderabad on 2024-03-13.

Big Data' Revolution in Life Science: Trends and Challenges. Enabling technology Training at School of Computational and Integrative Science, Jawaharlal Nehru University on 2024-02-24.

Life science data regulation in india. Trends in Biology: Past and Present meeting at Sikkim University on 2023-12-01.

The ‘Indian Biological Data Center’: Bridging the gap between ‘Data’and‘Knowledge’. Accelerating Biology 2024 :The Exascale Leap meeting at Centre for Development of Advanced Computing (C-DAC) on 2024-02-06.

Life science data revolution in India. Late Prof.H.C. Arya Endowment Lecture at Jodhpur hosted by Lachoo Memorial College of Science and Technology on 2023-09-26.

Archana Singh

Functional Genomics tools for Sustainable Agriculture. NAHEP- CAAST sponsored Workshop on “Plant Health Management Using Genomic Tools” at Division of Entomology & Division of Plant Pathology, ICAR-Indian Agricultural Research Institute, New Delhi on 2023-11-25.

Students under the Exchange Programme: One

Placement Details :

Six Ph.D. student placed as post-doc

Extension and Outreach Activities

DPMB students visit to Plant phenomics facility, IARI on 25.05.2023 and 14 students participated.

Educational Tour of B. Sc. (Hons.) Biochemistry students to your lab on November 10, 2023

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 11 (Eleven)

Faculty Strength

Total: 09 (Six) - Professor – 06, Associate Professor – 01 and Assistant Professor – 02

FACULTY OF LAW

Brief History

The Faculty of Law at the University of Delhi stands as a venerable institution with a rich legacy in legal education. Established in 1924, it has consistently maintained its reputation as a national focal point for legal studies. Over the years, the department has been at the forefront, producing distinguished legal figures, including Supreme Court and High Court judges, prominent advocates, influential political leaders, policymakers, and individuals who have set trends across various domains. Despite its renowned alumni, the department maintains an egalitarian ethos, offering practically free legal education at a nominal cost.

The Faculty of Law has unparalleled expertise of its faculty members and a multicultural environment, adds to its allure. Currently catering to over 10,000 students, encompassing LL.B., LL.M., and Ph.D. programs, the Faculty operates within limited resources. While a comprehensive three-year LLB degree course is offered by the three centres operating within the fold of the Faculty (Law Centre–I, in 1970, followed by Law Centre – II in 1971 and Campus Law Centre in 1975), the LL.M. and Ph.D. programs are administered under the direct supervision of the Dean. Embracing the case method of teaching law, the department distinguishes itself by not relying on publishers' new editions. Instead, faculty members diligently revise case materials for LL.B. and LL.M. programs every semester, ensuring the most relevant and up-to-date content. Printed copies of these materials are then distributed to all students without profit.

Major Activities and Achievements

In addition to its commitment to accessible legal education, the Faculty of Law boasts a rich print library supplemented with e-resources. The faculty comprises individuals with diverse knowledge and experiences, with professors from other universities, including foreign institutions, visiting under various fellowship programs to engage in research within the institution. The department also actively fosters international collaborations, with delegations from foreign universities frequently visiting to share knowledge and enrich the learning experience for our students.

CAMPUS LAW CENTRE

Brief History

Campus Law Centre, fondly known as CLC, is one of the premier legal education centers in the country. It was established in 1922, under the aegis of the University of Delhi in its foundation year. In 1975, the day classes of LL.B. of the Faculty of Law were rechristened as Campus Law Centre. The Campus Law Centre, known for its great achievements, has the distinction of being one of the oldest and most prestigious institutions, preserving its 100 years of rich heritage and legacy of producing profound lawyers, academicians, Union Cabinet Ministers, Chief Justices, and judges.

Major Activities and Achievements

The Campus Law Centre's (CLC's) Moot Court Society organized the 20th edition of its prestigious annual flagship event, the internationally renowned K.K. Luthra Memorial Moot Court Competition, 2024, with an impressive turnout of 72 teams from educational institutions in India and abroad. The Committee of

International Peace was constituted by the Campus Law Centre with Prof. (Dr.) Alka Chawla (Professor-In-Charge, CLC) as Patron-in-Chief, along with Dr. Harleen Kaur, Convenor, and other faculty members Dr. Suman Yadav, Dr. Neha Aneja, and Dr. Arti Aneja. It completed the Declaration of Peace and Cessation of War Handbook Discussion Project in collaboration with an international organization, Heavenly Culture, World Peace, Restoration of Light (HWPL) South Korea (2023).

Honours/Distinctions

Faculty

Professor Alka Chawla: Member, Law Advisory Board of Manav Rachna University; Member, Academic Council of GGSIP University; Member, Advisory Board, Daulat Ram College; Member, Governing Body, Lakshmi Bai College; Ranked as the topmost influential woman in Law for the year 2024 by Business World.

Dr. Seema Singh: Nominated Expert Member of the Centre for Tribal Studies, University of Delhi, since August 3, 2023; Nominated Member of the Committee on revising the syllabus of Jurisprudence Paper of LL.B. to include the Ancient Indian Philosophy of Justice since May 6, 2023; Nominated Member of the Committee to draft the syllabus for the five-year LL.B. course introduced by Delhi University; Nominated Member of the Academic Council of the India Policy Foundation since 2023; Elected Academic Council Member, University of Delhi, since 2023; Director of a major project awarded by ICSSR on “Strategic Framework for Virtual Court System Development of India in Northern and Eastern Indian States” for the year 2023-24.

Dr. Cholaraja M.: Honored with the “Indo-Thai Educational Excellence Award for the Best Teacher and Researcher in Law” at the WIRIC - SBPM - HLLSE - 2024 conference held on January 27-28, 2024, at Phranakhon Rajabhat University, Bangkok, Thailand. This event was jointly organized by Phranakhon Rajabhat University, the Global Research Conference Forum, and Grammonnati Mandal's Arts, Commerce & Science College.

Dr. Anita Yadav: Recipient of an international fellowship by the United Nations to attend the fifty-seventh session of the International Law Seminar (ILS) at the United Nations Office, Geneva, from July 3 to 21, 2023.

Publications

Scopus

Chostak, S. (2023). Climate Change Beyond Technocracy: Citizenship and Drought Practices in the Indian Himalayas, Taylor and Francis (Routledge), 1-24.

UGC Care listed Journal

Sharma, A. K. (2023). Mass Torts by Multinational Corporations: Is the Indian Tort Law Regime Adequately Equipped? National Law University, Jodhpur, 10(1), 79-124.

Kaur, H. (2023). Changing Contours of the Role of Victims from Being Observers to Participants under the Indian Criminal Justice System, Army Law School, 16, 14-27.

Other Journals

Nagarwal, N. (2023). Crisis and Response of Indian Federalism: Assessing the Federalism through the Prism of Constitution and Democracy, Department of Law, University of North Bengal, 14(2), 144.

Nagarwal, N. (2023). Locating the Gandhian Ideas in Pakistan's Contemporary Political Struggle, Gandhi Peace Foundation New Delhi, 45(2), 223.

Singh, S. (2024). Spirituality: The Foundation of Law, Manthan Research Magazine, 1, 41-45.

Singh, S. (2024). Exploring the Concept of Dharma in Ancient Bhartiya Texts: With Special Emphasis on Manu Smriti, Maharaja Sayajirao University Baroda, 72, 4-19.

Singh, S. (2023). Silenced No More: Exploring the Dynamics of Rape Victim Experience in India, Indian Society of Criminology & NLU, Delhi, 51(2), 79-89.

Books/Chapter in Books

Nagarwal, N. (2024). Protection of Health Rights of Specially-Abled Persons in India - A Critical Analysis of Policies and Statutory Instruments, *New Delhi*, Satyam Law House.

Nagarwal, N. (2023). Citizenship Amendment Act of 2019 and Understanding the Apprehensions of Marginalized Communities, Acumen Pub Netherland, 165.

Kaur, H. (2023). Understanding paradigm shifts in sexual offences laws in India, *United Kingdom*, Hamilton Limited.

Singh, K. K. (2023). Deciphering the Convergence of Law and Spirituality, *New Delhi*, Kitabwale, 69.

Neha, (2024). Disability: A journey from Welfare to Right, *New Delhi*, Satyam Law House.

Neha, (2024). Role of Alternative Dispute Resolution in Environmental Conflicts in Light of Sustainable Society, *Lucknow*, MJS Publishing House, 66.

Mittal, R. (2023). Law and Spirituality: Reconnecting the Bond, *New Delhi*, Kitabwale, 1-304.

Mittal, R. (2023). The Relationship between Law and Justice: An Exploration in Verse, *New Delhi*, Kitabwale, 978-93-95472-66-1, 101-116.

Mittal, R. (2023). The Rhythm of Law, *New Delhi*, Satyam Books, 9789383043583, 1-204.

Kumar, R., & Kumar, R. (2024). Rights of Persons with Disability and Constitution of India, *New Delhi*, Satyam Law House, 9788119119691, 339-348.

Singh, S. (2023). Law and Spirituality: Reconnecting the Bond, *New Delhi*, Kitabwale, 978-93-95472-66-1, 1- 304.

Research Projects

Institution of Eminence, University of Delhi (2022-2023), Dr. Harleen Kaur, Access to First Information Report under Crime and Criminal Tracking Network & Systems (CCTNS) Scheme: A Critical Evaluation", 2 lakhs

Seminars Organized

Sri Chandan Kumar and Ms. Aparna Mudium, Sri Chandan Kumar, OL, Mumbai, ICLS officer, and Ms. Aparna Mudium, ICLS officer, NA, Webinar on role of government in the birth, life, and death of a company, 15-12-2023

Ms. Harshita Singhal, founder of NGO, Nayaay Darshak, NA, webinar on “Reshaping Perspectives: Gender Sensitization in Legal Education,” 22-01-2024

Ms Varuna Bhanrale, Partner, Trilegal, Mr. Sunil Rathi, Sr. DGM (Legal), DMRC Ltd., Mr. Abhishek Gupta, Advocate, Supreme Court of India, Mr. Niraj Kumar, DGM (Legal), SRF Ltd., Mr. Anirudh K. Gandhi, Partner Designate (Dispute Resolution), Saraf & Partners, Mr. George Pothan, Advocate & Legal Consultant, Ministry of External Affairs, Government of India, Trilegal; DMRC Ltd.; Supreme Court of India; SRF Ltd.; Saraf & Partners; Ministry of External Affairs, Government of India , Abhishek Gupta, Advocate, Supreme Court of India, National Seminar on ‘Emerging Arbitration Landscape in India: Organised by ADR Society, Campus Law Centre, along with the CLC Student Union, 04-11-2023

Padma Shri Prof. Upendra Baxi, Padma Shri and Professor of Law, CLC, Webinar on “Constitution and Disability Rights” Organised by Enabling Unit, Campus Law Centre, 01-05-2023.

Justice K.T. Sankaran (Retd.), Member, Law Commission of India & Judge, Kerala High Court (Retd.), CLC, Seminar on “Navigating the Path to Becoming a Successful Lawyer” Organised by Enabling Unit, Campus Law Centre, 18-09-2023.

Adv. Subhash Vashishth, Advocate High Court & Supreme Court Specialist in Accessibility, Bhumika Trust (President - Mr. Jayant Singh Raghav) & CLC, "Two days event under the theme- “Breaking Barriers: Diversifying Abilities” Organised by Enabling Unit, Campus Law Centre: Day 1 - Class to Class Sensitization Drive; Day 2 - Stimulation Workshop & Open Mic Competition,” 01-12-2023.

Dr. Hemang Shah, Director of Engineering (Startups, Innovation) Qualcomm Technology Licensing, India, CLC, IPR Knowledge Series’ –“Indian Deep Tech Startups-Importance of IP Strategy and Success Factors” Organised by the IPR Society, Campus Law Centre, Faculty of Law, University of Delhi, 05-12-2023.

Hon’ble Justice Saurabh Banerjee, Judge, Delhi High Court; 2. Adv. Pankaj Sinha, Advocate Delhi High Court & Supreme Court; 3. Prof. Anil Aneja, Director, Center for Disability Studies, University of Delhi, CLC, Seminar on “Ensuring Equal Opportunities: Addressing the Intersection of Human Rights and Disability Rights” Organised by Enabling Unit, Campus Law Centre, 16-12-2023.

Ms. Ira Singhal, IAS, Special Secretary (Education), Govt. of Arunachal Pradesh; 2. Mr. Sandeep Kumar, Civil Judge, Junior Division, Bihar Judicial Services, Seminar on “Exploring and Analysing the Multifaceted Challenges Encountered by Persons with Disabilities in Higher Education & Employment” Organised by Enabling Unit, Campus Law Centre, 26-12-2023.

Mr. Mohammed Asif, Executive Director of Plan International; 2. Mr. Manab Ray, Project Lead; 3. Ms. Anushree Mishra, Director of Programmes (Gender, Education, and Livelihoods) at Plan India, CLC, Awareness Workshop on “PROJECT GARIMA” organised by the Legal Aid Society in collaboration with Plan India, Delhi, 18-04-2023.

Justice Karpaga Vinayagam, Former Chief Justice of Jharkhand High Court and Senior Advocate at the Supreme Court of India, CLC, Orientation Program on “Art of Advocacy and Persuasion - Lessons from the Bar and Bench” Organised by Debate and Discussion Society (Virtual), 14-12-2023.

Mr. Mridul Upadhyay, Programme Management Specialist, United Nations Office of Counter-Terrorism (UNOCT), in collaboration with United Nations Office of Counter-Terrorism (UNOCT)'s zoom online certificate workshop on "Legal Frontiers in Preventing and Countering Violent Extremism" Organised by Debate and Discussion Society (Virtual), 06-01-2024.

Mr. Atul Sharma, Hony. Secretary, Delhi Bar Council; Ms. Nivedita Mukhija, Associate, AZB; Mr. Rohan Chawla, Advocate Delhi HC, "Lecture on "Defamation: Civil vs Criminal" as a part of CLC Townhall series Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi," 01-04-2023.

Professor Vinay Bhatnagar, Distinguished Parliamentarian, "Lok Neeti National Youth Parliamentary Debate on "Data Protection Laws in India: Balancing Innovation, Privacy & National Security" Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi," 06-04-2023.

Shri Acharya Dr. Lokesh Muni, Social Reformer and Founder of 'Ahimsa Vishwa Bharti'; Shriguru Pawan Sinha, Author and Founder of Paavan Chintan Dhara Ashram, Lecture on "Dharma in Law" Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi, 28-04-2023.

Rishi Anand, Partner at DSK Legal, "Orientation session on the theme "From Law School to Courtrooms-Pathways and Deliberations," followed by a student discussion "Right to Privacy v. National Security: Where should the line be drawn" Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi," 27-10-2023.

Mr. Mayank Singhal, Advocate specialising in corporate law, Youth Parliament Workshop Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi, 24-11-2023.

Hon'ble Justice L Narsimha Reddy, Former Chief Justice of Patna High Court; Dr. Mahesh Chandra Sharma, Author and Former Rajya Sabha member, Webinar on "Fraternity: A Constitutional Imperative" Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi, 26-11-2023.

Shri C.S. Vaidyanathan, Senior Advocate, Supreme Court, Mock constituent assembly discussion with reference to the constitutional assembly debate on "The Role of Governor and His Functions and Appointment" Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi, 02-12-2023.

Mr. Arghya Sengupta, Founder and Research Director of Vidhi Centre for Legal Policy, Book Discussion followed by an interactive session to kick-start society's new initiative "Ink and Insights: The CLC Book Club Series" to invite authors to deliberate about their books and provide a platform for students to exchange their books amongst themselves. Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi, 22-12-2023.

Hon'ble Justice Vikram Nath and Hon'ble Justice Hima Kohli, Hon'ble Judges, Supreme Court of India; 2. Hon'ble Justice Rekha Palli, Hon'ble Justice Neena Bansal Krishna and Hon'ble Justice Dr. Sudhir Kumar Jain, Hon'ble Judges, High Court of Delhi; 3. Mr. Suryaprakash V. Raju, Additional Solicitor General of the Supreme Court; Senior Adv. Sidharth Luthra, XXth K. K. Luthra Memorial Moot Court Competition Organised by Moot Court Society, Campus Law Centre, University of Delhi, 17-03-2024.

Louise Boisen, IPR Counsellor, Embassy of Denmark in India; Dr. K.S. Kardam, Former Senior Joint Controller of Patents and Designs at the Indian Patent Office, New Delhi, APS Academy, the Orientation Programme of IPR Society, Campus Law Centre, Organised by the IPR Society, Campus Law Centre, Faculty of Law, University of Delhi, 29-11-2023.

Mr. Yash Varmani, Senior Associate, Trilegal, Interactive Session on “How to Secure Internships and Placement at Tier-1 Law Firms” Organised by the CLC Placement Assistance Council as a part of its flagship Mentorship Programme 2023-24, 16-12-2023.

Mr. Abhishek Gupta, Advocate, S.G. Associates, Workshop on “Developing a Career in ADR and Drafting Arbitration Notices” (Virtual), 17-12-2023.

Mr. Tanveer Ahmed Mir, Advocate, Orientation Programme for The Batch 2023-26 Organised by the Criminal Law Society, Campus Law Centre, University of Delhi, 27-10-2023.

Mr. Anurag Modi, Senior Public Prosecutor, CBI, “Role of Public Prosecutor in a Criminal Trial”: Episode 1 of “The Trial Talks” Organised by the Criminal Law Society (Cr. L.S), Campus Law Centre (CLC). The lecture series: “The Trial Talks” has been started to commemorate the 100 years of our esteemed institution, Campus Law Centre, which aims to bring industry experts together to climb the legal ladder, from bottom to top, 28-11-2023.

Mr. Sanjeev Sikarwar, In-charge, Judicial Lock-up Patiala House Court and Sub-Inspector, Delhi Police, Episode 2 of The Trial Talks: “Understanding the Criminal Procedure” Organised by the Criminal Law Society (Cr. L.S), Campus Law Centre (CLC), 09-12-2023.

Prof. (Dr.) Vijaylaxmi Sharma, Professor of Law, Director, MUJ, TEC (Teacher Empowerment Centre), Manipal University, Jaipur, Episode 3 of The Trial Talks: “Prevention of Sexual Harassment at Workplace: A Legal Mandate” Organised by the Criminal Law Society (Cr. L.S), Campus Law Centre (CLC) (virtual), 27-12-2023.

Conferences Organized

Shri. S Gurumurthy, renowned author & economist; Shri. K.N. Govindacharya, founder of Kautilya International Foundation; Prof. Balbir Singh Sihag, Professor Emeritus at MIT, USA; Prof. Yogesh Singh, Vice Chancellor, University of Delhi; Dr. Anil Sahasrabuddhe, Chairman of NETF and NAAC, and many other erudite and eminent voices in academia, NA, two-day conference in association with Kautilya International Foundation on the theme “Kautilya and the Contemporary World.” Organised by the Debate & Discussions Society, Campus Law Centre, University of Delhi, 22-03-2024.

Seminar/Conference Presentations (National / International)

Dr. Harleen Kaur: Presented paper titled “Developing Collaborations for Capacity Building in the Legal and Justice Sectors in the Global South” at the International Rule of Law Convention 2023 held on May 16, 2023, at the Bar Council of India.

Dr. Kshitij Kumar Singh: Presented paper titled “Using AMR-specific policies to create dual wins across global challenges” as a discussant at The Expert Workshop on the Future of AMR Policy held on April 24, 2023, at The Global Strategy Lab, York University, Toronto.

Dr. Kshitij Kumar Singh: Resource person and speaker on “Pandemic Preparedness Needs a Holistic Approach - Integrating Technological Innovation with Resource, Governance, and Leadership” at The CeBIL, University of Copenhagen Webinar on Pandemic Preparedness, “Lessons Learned, Lessons Forgotten?” held on June 8, 2023, at the CeBIL, Faculty of Law, University of Copenhagen.

Dr. Kshitij Kumar Singh: Presented paper titled “Sustainable Biomedical Innovation & Global South Perspectives” at the CeBIL symposium: Sustainable Health Innovation, Grand Challenges & the Law in the Panel “Future Research Directions” held on June 15, 2023, at the CeBIL, Faculty of Law, University of Copenhagen.

Dr. Kshitij Kumar Singh: Presented paper titled “Protection against Genetic Discrimination in India: Examining the Ethical, Legal and Policy Pathways” at the 4th Annual Scientific Meeting of GDO, CGP, McGill University (Panama City, Panama) held on December 11, 2023, at the Genetic Discrimination Observatory, Centre of Genomics and Policy, McGill University, Canada.

Dr. Kshitij Kumar Singh: Presented paper titled “Innovation Conundrum in the Antimicrobial Sector: A Curious Case for Intellectual Property Rights” at The Sixth IP and Innovation Researchers of Asia (IPIRA) Conference 2024 (Foreign Trade University, Vietnam) held on January 19, 2024, by the IPIRA Network and Foreign Trade University, Vietnam, in collaboration with WTO, WIPO, and others.

Dr. Kshitij Kumar Singh: Presented paper titled “The Role of the World Health Organisation during the COVID-19 Pandemic: Examining the Legal Mandate and Responses” at the International Seminar “Exploring the Role of International Institutions in Resolving Contemporary Issues” (Session-Role of International Institutions and Health Crisis Management) held on February 3, 2024, at the Faculty of Law, Banaras Hindu University, Varanasi.

Dr. Kshitij Kumar Singh: Presented paper titled “Trade Secret Protection and Enforcement System in India” at the “FICCI-United States Patent and Trademark Office (USPTO) Roundtable on Trade Secrets” held on April 21, 2024, by FICCI in collaboration with the United States Patent and Trademark Office (USPTO).

Dr. Cholaraja M.: Keynote Speaker - delivered a lecture on the topic “Artificial Intelligence Regulation Under G8 Countries: A Critical Analysis” at the GRCF Singapore International Conference held on August 14, 2023, “GRCF Singapore International Conference on Sustainable and Innovative Practices in Management, Science, Law, Humanities, Engineering, and Higher Education” held at the National University of Singapore.

Prof. Alka Chawla: Resource person on the title “National Commission for Women One Day Awareness Programme” organized by Vivekananda Institute of Professional Studies held on August 2, 2024, at Vivekananda Institute of Professional Studies.

Prof. Alka Chawla: Resource person on the title “Probationary Civil Judges” held on March 3, 2024, at Bihar Judicial Academy.

Prof. Alka Chawla: Resource person on the title “2-day conference on Kautilya and Contemporary World” held on March 21, 2024, at Kautilya International Foundation and Campus Law Centre, University of Delhi.

Dr. Narender Nagarwal: Presented paper titled “Emerging Trends in Human Rights” in National Conference on Human Rights and Emerging Issues held on January 1, 2024, at XIM University, Bhubaneswar.

Dr. Harleen Kaur: Presented paper titled “Key Issues in the Legislative and Judicial Response Towards Sexual Offences Against Women in India” in 40-hour certificate course on Gender Discourses-The Indian Perspective held on April 11, 2023, at Ram Lal Anand College.

Dr. Kshitij Kumar Singh: Panelist and speaker in the session, “The Relevance of Right-Duty Correlation in the Academic Set-Up” in National Conference on Yoga for Vasudhaiva Kutumbakam- Yoga for Public

Health and Prosperity held on June 23, 2023, at Gandhi Bhawan, University of Delhi, UGC-Inter University Centre for Yogic Sciences, Sulabh International Social Service Organisation in collaboration with All India Institute of Ayurveda and Delhi Library Association.

Dr. Kshitij Kumar Singh: Resource person on “Intellectual Property Rights in Biology” in Workshop on Intellectual Property Rights in Biology held on October 25, 2024, at the Phytomics- Botanical Society, Department of Botany, Bhaskaracharya College of Applied Sciences, University of Delhi.

Dr. Kshitij Kumar Singh: Presented paper titled “Deciphering the Contours of Online Legal Education- With Special Reference to Legal Resources” in The Centennial National Conference on “Legal Education in India: Retrospect and Prospect” held on February 4, 2024, at Faculty of Law, Banaras Hindu University, Varanasi.

Dr. Neha: Resource person on “Reproductive Rights of Persons with Disabilities” in One-Day Delhi State Level Meeting held on April 21, 2023, organized by Socio-Legal Information Centre and Bhumika Trust.

Dr. Neha: Resource person on “Rights of Persons with Disabilities Act, 2016” in Training of 48 Officer Trainees of Indian Revenue Service (Customs & Indirect Taxes) of the 74th Batch of IRS (C&IT) held on April 28, 2023, organized by The National Academy of Customs, Indirect Taxes & Narcotics (NACIN), Faridabad.

Dr. Neha: Resource person on “Persons with Special Abilities (Divyaang)” in Training for Group ‘A’ Officers of CBIC organized by The National Academy of Customs, Indirect Taxes & Narcotics (NACIN), Faridabad.

Dr. Kshitij Kumar Singh: Presented paper titled “Critical Reflections on the Jurisprudence of ‘Duty’: India and the West” in Kashi Nyaya Samagam on Bhartiya Jurisprudence (Session: “Dialogue between Dharmashastra and Modern Law”) held in March at Faculty of Law, Banaras Hindu University, Varanasi.

Dr. Neha: Presented paper titled “Sports and Disability: Looking through Gender Lenses” in National Seminar on “Women Empowerment Through Sports: Issues and Challenges” held on July 7, 2023, organized by the Campus Law Centre, University of Delhi and sponsored by the National Commission for Women at Conference Centre, University of Delhi.

Dr. Neha: Resource person on “Laws & Regulations” in the 2nd batch of interns in an Internship Programme – 2023 held on September 9, 2023, organized by National Centre for Good Governance (NCGG), Ministry of Personnel, Public Grievances & Pensions, Government of India.

Dr. Kshitij Kumar Singh: Resource person: “Artificial Intelligence, Technology and Cyber Law: Challenges and Future Prospects” in National Seminar on Artificial Intelligence, Technology and Cyber Law: Challenges and Future Prospects held on March 21, 2024, organized by VSSD College, Kanpur (UP) in collaboration with UP State Council of Higher Education.

Dr. Neha: Presented paper titled “Role of Alternative Dispute Resolution in Environmental Conflicts in the Light of Sustainable Society” in National Conference on “Emerging Trends of Sustainable Society: Present Perspective and Future Prospects” held on October 14, 2023, organized by the Maa Vaishno Devi Educational Law College, Lucknow, Uttar Pradesh.

Dr. Neha: Resource person on “Promotion Rights of Persons with Disabilities” in Seminar on “Equitable Workspace & Career Advancement for the Disabled Persons” held on January 29, 2024, organized by the Disability Rights Front (DRF) at Delhi University Guesthouse.

Dr. Neha: Resource person on “Property Rights of Women” an invited talk on International Women’s Day held on March 8, 2024, organized by Under Graduate Hostel for Girls (UGHC), University of Delhi.

Dr. Neha: Resource person on “Viksit Bharat Main Mahilaon ka Yogdan” in Seminar held on March 30, 2024, organized by NCWEB Centre, Hansraj College, University of Delhi.

Dr. Shikha Sharma: Keynote speaker: “Use Legal Database Effectively for Research” in Workshop on Legal Research and Methodology held on October 17, 2023, IILM University, Noida.

Dr. Shikha Sharma: Presented paper titled “Handling Cases in Central Administrative Tribunals” in Training Course on Law Officers of Indian Defence Estate Services and SDOs held on January 9, 2024, ILI in Association with National Institute of Defence Estate Management (NIDEM).

Dr. Anita Yadav: Resource person on the role of legal aid in tackling gender-based violence in One-Day Workshop on “Gender-Based Violence: Legal Protection” held on February 2, 2024, CEERA, National Law School of India University, Bangalore & Vivekananda School of Law and Legal Studies, Pro Bono Club.

Dr. Anita Yadav: Presented paper on “Development and Challenges of Real Estate Industry” in 2nd National Seminar on “Affordable Housing Building Inclusive Society For The 21st Century India” held on November 11, 2023, National Law University Delhi, New Delhi.

Dr. Anita Yadav: Presented paper on “Digital Personal Data Protection Act, 2023: Creating Balance between Safety and Innovation” in All India Law Teachers Congress (AILT) held on December 12, 2023, All India Law Teachers Congress (AILT) and Law Centre II, University of Delhi.

Dr. Suman Yadav: Presented paper on “Property Rights of Women in India” in 40-hour certificate course on Gender Discourses-The Indian Perspective held on May 11, 2023, Ram Lal Anand College.

Dr. Cholaraja M.: Resource person - Delivered a lecture on IPR and HR in Refresher Course in Law and Human Rights held on December 18, 2023, UGC- Malaviya Mission Teacher Training Centre, Pondicherry University.

Dr. Cholaraja M.: Resource person - Delivered a lecture on the topic ‘Journey into Copyright’ in 1-week Faculty Development Programme on IPR - New Horizons & Prospects held on October 12, 2023, Department of Corporate Secretaryship & Accounting and Finance, Faculty of Science & Humanities, SRM Institute of Science & Technology, Chennai, Tamil Nadu.

Dr. Cholaraja M.: Resource person - Delivered a lecture on the topic ‘Copyrights in Connection with Research Paper Writing and Publication’ in 1-week Faculty Development Programme on IPR - New Horizons & Prospects held on October 13, 2023, Department of Corporate Secretaryship & Accounting and Finance, Faculty of Science & Humanities, SRM Institute of Science & Technology, Chennai, Tamil Nadu.

Dr. Cholaraja M.: Keynote speaker - Delivered a lecture on the topic “Balancing Acts: Navigating Sustainable Business Practices and Challenges” in WIRIC - SBPM - HLLSE - 2024 International Conference held on January 1, 2024, jointly organized by Phranakhon Rajabhat University, the Global Research Conference Forum, and Grammonnati Mandal’s Arts, Commerce & Science College.

Dr. Seema Singh: Keynote speaker in International Women’s Day-2024 at IP College, University of Delhi to speak on the topic “Women Legal Rights and Duties” held on March 21, 2024, at IGNOU Regional Centre, Khanna, Punjab.

Dr. Seema Singh: Resource person in Seminar on Equality Jurisprudence including the concept of legislative drafting held on July 3, 2024, at NLU Odisha by their CLS-NLUO Credit Course on Equality Jurisprudence and Legislative Drafting.

Dr. Seema Singh: Panelist on “From Margins to Mainstream: Enhancing Access to Justice” in a panel discussion on the topic “From Margins to Mainstream: Enhancing Access to Justice,” February 27, held at the Legal Aid Committee as part of Pro Bono Week 5.0 by Bennett University, Greater Noida.

Dr. Seema Singh: Resource Person invited to speak at an awareness workshop commemorating the landmark legislation on Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act, 2013, February 12, 2023, Ministry of Law & Justice, Shastri Bhawan, Delhi.

Dr. Seema Singh: Guest Speaker on “Media, Polity, and The Legal System in India” at Delhi School of Journalism, University of Delhi.

Dr. Seema Singh: Resource Person at a seminar on the Waqf Act, held on January 13, 2024, in Vidhi Manthan.

Dr. Seema Singh: Guest Speaker on the theme ‘Shaping the Discourse and Scholarship in Criminology’ invited to speak at a colloquium commemorating the illustrious 50-year journey of the National Law University Delhi in association with the Indian Society of Criminology, celebrating the 50th anniversary of the Indian Journal of Criminology, held on December 23, 2023, at NLU Delhi.

Dr. Seema Singh: Resource Person in “Bhartiya Sakshya Adhiniyam -2023,” held on October 20, 2023, Forum of Awareness of National Security.

Dr. Seema Singh: Resource Person in “Reservation of Women in Parliament and Evolution of Constitution,” held on November 29, 2023, Faculty of Law, Jamia Millia Islamia.

Dr. Seema Singh: Resource Person invited to speak on “Constitution Day,” held on November 11, 2023, at IGNC.

Dr. Seema Singh: Speaker on “An Insight on Criminal Law Reforms Bill-2023” invited to a Legal Dialogue 2023 on the topic of “An Insight on Criminal Law Reforms Bill-2023,” held on December 19, 2023, at Delhi High Court.

Dr. Seema Singh: Resource Person invited to speak on “Constitution Day,” held on November 26, 2023, at Central University, Andhra Pradesh.

Dr. Seema Singh: Resource Person invited to speak on “The key principles of administrative law on legislative drafting,” held on November 3, 2023, at ICPS.

Dr. Seema Singh: Resource Person invited to speak at a Workshop on Gender and Law, on the theme of “Women Related Laws and Contemporary Issues,” held on October 31, 2023, at NLIU Bhopal.

Dr. Seema Singh: Chief Guest invited to speak on “Ancient Indian Jurisprudence,” held on October 13, 2023, at Bennett University.

Dr. Seema Singh: Resource Person invited to speak on “Uniform Civil Code-Facts and Truth,” held on August 23, 2023, at Shiksha Sanskriti Utthan Nyaas.

Dr. Seema Singh: Resource Person invited to speak on “POSH Act-2013,” held on February 8, 2023, at NCST.

Dr. Seema Singh: Resource Person invited to speak on “Uniform Civil Code,” held on August 1, 2023, at the Centre for Social Development.

Dr. Seema Singh: Resource Person invited to speak on “Uniform Civil Code,” held on July 15, 2023, at the Indian Policy Foundation.

Dr. Seema Singh: Resource Person invited to speak on “The basic principles of administrative law on legislative drafting,” held on July 7, 2023, at ICPS.

Placement Details : 24

Extension and Outreach Activities

Legal Aid Society, Campus Law Centre: Legal Awareness Drive at Sanjay Basti, New Delhi, 15th April 2023.

Legal Aid Society, Campus Law Centre: Awareness Programme on ‘Project Garima’ in collaboration with PLAN India NGO, 18th April 2023.

Legal Aid Society, Campus Law Centre: Orientation Programme of Legal Aid Society for first-year students, 31st October 2023.

Legal Aid Society, Campus Law Centre: Students volunteered for National Lok Adalat at various District Courts of Delhi, 10th December 2023.

Legal Aid Society, Campus Law Centre: Legal Awareness Drive at Malkaganj, New Delhi, 16th December 2023.

Legal Aid Society, Campus Law Centre: Students volunteered for the first National Lok Adalat of 2024 at various District Courts of Delhi, 9th March 2024.

Enabling Unit, Campus Law Centre: Awareness Program through Nukkad Natak on Challenges faced by Persons with Disabilities, 26th December 2023.

National Service Scheme, Campus Law Centre: Socio-Legal Lecture on Growth of Mediation Centre in India: Promises and Challenges delivered by Hon’ble Justice Sudhir Kumar Jain, Judge, Delhi High Court at Seminar Hall, CLC, 21st April 2023.

National Service Scheme, Campus Law Centre: Amrit Kalash Yatra, From CLC to the University Campus to DC Office, Delhi, 13th October 2023.

National Service Scheme, Campus Law Centre: Fit India Swachhata Freedom Run 4.0 Starting from CLC via Hindu College, DU Gate No.1 and University Sports Complex, 16th October 2023.

National Service Scheme, Campus Law Centre: Blood Donation Camp in collaboration with AIIMS New Delhi, 20th October 2023.

National Service Scheme, Campus Law Centre: Inaugural Session of Electoral Literacy Club virtually addressed by Sh. VB Mishra, Additional Divisional Commissioner, Varanasi (UP), India on “Electoral Awareness and Youth” at Campus Law Centre, 26th October 2023.

National Service Scheme, Campus Law Centre: Cleanliness Drive at CLC, Faculty of Law, Arts Faculty, and adjoining Area, 27th October 2023.

National Service Scheme, Campus Law Centre: Socio-Legal Lecture on Mental Health and Stress Management delivered by Mr. Vishal Goyal, Psychologist at Seminar Hall, CLC in collaboration with Rotaract Club of Delhi South, 30th November 2023.

Election Committee, Campus Law Centre: Conduct of CLC Students' Union Election and DUSU Elections 2023-24, 22nd September 2023.

Enabling Unit, Campus Law Centre: Class to Class Sensitization Drive for the rights of persons with disabilities, 30th November 2023.

Faculty Strength

Total: 62 - (Professor – 05, Assistant Professor – 34, and Guest Faculty- 23)

Other Significant Information

The Discussion Project on the New Criminal Laws was organized by the Criminal Law Society (Cr.L. S), Campus Law Centre (CLC) on 14th March 2024 at the Seminar Hall, CLC.

Dr. Seema Singh was involved in organizing an International Conference on Bharat, Girimitiya, and Africa: Historical, Cultural, and Strategic Cooperation on 5th-6th March 2024.

The Placement Assistance Council (CLC) successfully conducted an On-campus Recruitment Drive inviting one of the top-tier companies, KPMG, to hire talented students of CLC for the role of “Associate Consultant - Forensic Investigations” on 8th December 2023. The company shortlisted 10 students and recruited 3 suitable candidates.

The CLC Moot Court Society organized several induction moot workshops and induction moot courts for CLC students between 10th October - 7th November 2023.

Dr. Narender Nagarwal was appointed as Member, Editorial Board in CBPBU Journal-Indian Journal of Law and Governance, Coochbehar Panchanan Barma University, Coochbehar, West Bengal.

LAW CENTRE-I

Brief History

Law Centre-I was established in 1970 and commenced LLB evening classes in DAV School building at Paharganj and subsequently relocated to NP School building at Mandir Marg. In 1994, it was relocated to the Faculty of Law main campus at Chhatra Marg and in 2015 the University of Delhi allocated a five-storey Umang Bhawan building at Chhatra Marg. Umang Bhawan is equipped with all modern amenities like elevators, CCTV cameras, spacious classrooms with multi-media facilities among others.

Activities and Achievements

Law Centre-I carried out all teaching-learning activities including seminars, workshops, training programs and placement activities.

Law Centre-I organized the XVIIth LC-I All Delhi NCR Moot Court Competition through online mode and had overwhelming participation of students from major law schools in Delhi-NCR.

Law Centre-I organized a lecture by Padma Bhushan Prof. Ved P. Nanda on 50 years of Stockholm Conference: A Stocktaking on the trials of International Environmental Law.

The faculty members have published research papers in national and international journals and chapters in book published by reputed publishers.

Honours/Distinctions

Mr. Pushkar Anand was awarded the Best Researcher in under 45 years category by the University of Delhi (2023).

Law Centre-I was awarded the Best Website by the University of Delhi (2023).

Law Centre-I won the First Prize in National Youth Parliament organized by Nehru Yuva Kendra, East Delhi, Ministry of Youth Affairs & Sports, Government of India (2023).

Law Centre-I secured the first position in research-cum-paper presentation titled “A Report on the Field Study on the Implementation of the RTE Act, 2009 in the Government Primary Schools of North Delhi-2023” organized by Legal Aid and Awareness Committee of National Law University, Jodhpur.

Publications

UGC Care Listed Journal

Sinha, A. (2023). A Legal Perspective on “Sex Trafficking: Vulnerability, Impact and Rehabilitation”, Kashmir Journal of Legal Studies, 10(1), 217.

Other journals

Kavita (2023). “Analysis of Internet Banking along with Legal Aspects in India”, Kurukshetra Law Journal, 11, 113-129.

Mishra, A. (2023). “Inheritance Right of Hindu Women in Agricultural Property: Uncertain Justice”, Journal of Indian Law Institute, 65(2), 123-135.

Stellina, J., Singh, S & Saraswat A. (2023). “Mainstreaming Gender in Transboundary Water Governance: A South Asian Perspective”, Asia Pacific Journal of Environmental Law, 26(2), 221-243.

Books/Chapter in Books

Kalidhass, P.R. (2023). *Post War Changes and the United Nations Security Council Reform: An Overview in the Twenty-first Century*, Munich, GRIN Verlag Publishers, ISBN 9783346937698, 1-222.

Kumari, Meena and Munmun Kaur (2023). Gender Justice through Uniform Civil Code- An Appraisal in Prof. PB Pankaja (ed.) *Family Law in India-Growing with Modernity*, Faculty of Law Dr. MGR Educational & AMP, Research Institute Publication, 978-93-95054-66-9.

Misra, Siddhartha (Ed.) (2024). *Indian Practice of International Law: Global Norms and Their Domestic Enforcement*, Routledge India, ISBN: 9781032432380, pp 520.

Sharma, Alok (2023). Realisation of Right to Legal Aid: A Critical Analysis with Reference to NCT of Delhi in V.P. Tiwari (ed.) *Changing Facets of Legal Profession in India & Quot: A Festschrift in Honour of Late Prof. (Dr.) N.R. Madhava Menon*, Delhi, Mohan Law House, 978-81-956099-5-6.

Sinha, Anju (2023). *Indian Parliament: The New Triangle*, HP Hamilton Limited.

Research Project

Sinha, Anju (2024), Completed Research Project on “Right to Health viz-a-viz Milk Adulteration in India: Need For A Robust Legal and Regulatory Framework along with Effective Judicial Intervention”, Institution of Eminence, Delhi University.

Seminar/Conference Presentations

(National/International)

Ao, Moatoshi, delivered a lecture on "Origin, Rationale, Evolution and Prospects of the Policy Related to Schedule 6 Areas and to Article 371A" at the Administrative Training Institute, Kohima on 28 April 2023.

Bharati, Sunanda: Presented a paper titled "Cross-border Dynamics in GI, TK, and TCE" during the technical session at the WBNUJS Hackathon on 9 March 2024.

Bharati, Sunanda: Presented a paper titled "A Socio-Legal Study on IPR Protection for Indian Varieties of Millets and Allied Traditional Knowledge" at the 6th annual IPIRA conference held at Foreign Trade University, Hanoi, Vietnam representing the Faculty of Law, University of Delhi on 18 January 2024.

Dass, Poonam: Presented a paper titled “Exploring the Complexities of Copyright Challenges: Web1 to Web3 and Artificial Intelligence” at the One Day National Seminar (in hybrid mode) on Copyright Protection in Emerging Technology: Issues and Challenges jointly organized by School of Law and Governance & Research and Development Cell, Central University of South Bihar, Gaya on 26 April 2023.

Kaur, Sarbjit, Organised Stakeholder Engagement on Administrative Tribunals in India: Promises, Performance and Prospects at Umang Bhawan, Faculty of Law, University of Delhi under Major Research Project funded by Institute of Eminence, University of Delhi, India on 21 October 2023.

Kavita, Presented a paper titled “The Role of Mediation in Human Rights Disputes” in the International Conference on Vedic Jurisprudence & its Impact on Contemporary World at Centre For Vedic Sciences, Banaras Hindu University on 11-12 February 2023.

Kavita, Presented a paper titled "Right to Information & Consumer Rights” in the National Seminar on Right to Information Act 2005 - As a Tool of Good Governanace at D.A.V. College, Pehowa on, 28 February 2023.

Misra, Siddhartha: Presented a research paper titled "Ensuring Security of Elderly Persons in India – An Analytical Study", in the National Conference on Protection of Rights of Elderly People in India, organised by the Centre for Comparative Studies in Personal Laws, National Law University, Delhi on 6 November 2023.

Misra, Siddhartha: Presented a paper titled, "Decolonising Indian Law and Ancient Indian Jurisprudence", at Legal Conclave organised by DUSU and Law Faculty at Delhi University Conference Centre on 5-6 August 2023.

Misra, Siddhartha, Acted as a panellist in discussion on Chandryan Mission of ISRO on Sahara Samay New Channel on 23 August 2023.

Misra, Siddhartha, Acted as a panellist in discussion on Aditya L1 Mission of ISRO on Sahara Samay New Channel on 2 September 2023.

Misra, Siddhartha, Acted as a panellist in discussion on G20 Summit on Sahara Samay New Channel on 9-10 September 2023.

Misra, Siddhartha, Acted as a resource person and spoke on Decolonising Indian Law and Ancient Indian Jurisprudence at Legal Conclave organised by DUSU and Law Faculty at Delhi University on 6 August 2023.

Munjal-Shankar, Diksha, Delivered lecture on Rights of Vulnerable Groups in the One-Day Basic Training Programme on Human Rights for Prison Personnel conducted by Haryana Institute of Public Administration, Gurugram on 8 February 2023.

Munjal-Shankar, Diksha, Delivered lecture on Rights of Vulnerable Groups in the Induction Training for Dy. Suprintendant/Asstendant Suprintendant of Prison Department conducted by Haryana Institute of Public Administration, Gurugram on 16 March 2023.

Sharma, Alok, Took Three Sessions on Jurisprudence in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVII conducted by CBI Academy, Ghaziabad on 10 and 17 June 2023.

Sharma, Alok, Took Three Sessions on Constitution in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVII conducted by CBI Academy, Ghaziabad on 1, 8 and 22 July 2023.

Singh, Shachi, Presented a paper titled "From Vedic Times to Contemporary India: Exploring Nature's Eminence in the Governance Structure" in the International Conference on Vedic Jurisprudence & Its Impact on Contemporary World" organized by Centre for Vedic Sciences, Banaras Hindu University, Kashi, Bharatvarsh on 11-12 February 2023.

Sinha, Anju, Presented a paper titled "NEP: Solution for Mitigating Youth Unemployment in India" in National Seminar organized by Goswami Ganesh Dutt Sanatan Dharam College Palwal, Haryana on 6 April 2023.

Yadav, Shankar Singh, Presented a paper titled, "Compatibility between the Competition Policy and the Exclusive Economic Rights (IPRs): A Shared Boundary by the Competition Commission and the IPR Regulatory Bodies" at the two days conference (Online) on 'Optimising Intellectual Property Rights in the Globalised World and Unleashing the Emerging Challenges of the Corporate Laws organised by Dr. RKB Law College, Dibrugarh, Assam, India on 13-14 March 2024.

Invited Lectures/key note speaker/resource person

K, Ratnabali, Plenary Speaker in International Conference on Academic Libraries (ICAL-2023) organised by DULS, University of Delhi on 5-8 April 2023.

K, Ratnabali, Keynote speaker in the Seminar on National Education Policy, 2020 organised by Raj Bhavan, Bihar, presided by Hon'ble Governor, Bihar on 5 June 2023.

K, Ratnabali, Speaker on "Multidisciplinary and Holistic Education: Multidisciplinary, Liberal Arts and Liberal Education and Multiple Exits and Multiple Entry" in the Vice Chancellors Conference organised by Raj Bhavan, Assam, presided by the Hon'ble Governor, Assam on 16 June 2023.

K, Ratnabali, Keynote Speaker in the National Seminar on "Trends and Issues in Quality Higher Education in India with Special Reference to North East India" organised by Nowgong College (Autonomous) Assam on 19 October 2023.

K, Ratnabali, Session Speaker on "Issues and Challenges of Implementing FYUP" at Three-day workshop on Leadership Development for University Deans and Head of Departments organised by NIEPA on 7 November 2023.

K, Ratnabali, Keynote speaker in the workshop titled "Implementation of NEP2020: An Assessment of Selected Academic Institutions" organised by Aryabhata College on 14 February 2024.

Sharma, Alok, Took Three Sessions on "Jurisprudence" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVII conducted by CBI Academy, Ghaziabad on 10 and 17 June 2023.

Sharma, Alok, Took Three Sessions on "Constitution" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVII conducted by CBI Academy, Ghaziabad on 1 and 8 July 2023.

Sharma, Alok, Took Two Sessions on "Constitution" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVII conducted by CBI Academy, Ghaziabad on 22 July 2023.

Sharma, Alok, Took Two Sessions on "Constitution" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVII conducted by CBI Academy, Ghaziabad on 5 August 2023.

Sharma, Alok, Took One Sessions on "Mediation in Quasi-Criminal Cases" in "GAJE Sponsored NLUO Mediation and Negotiation Conclave" conducted by NLUO Centre for Mediation and Negotiation on 10 August 2023.

Sharma, Alok, Took Two Sessions on "Lokpal and Lokayukta Act, 2013" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVII conducted by CBI Academy, Ghaziabad on 12 August 2023.

Sharma, Alok, Delivered a lecture on "Relevance of NEP, 2020" in National Conference on "National Education Policy 2020: Perspectives, Challenges and Way Forward" conducted by Gargi College, University of Delhi on 3 November 2023.

Sharma, Alok, Delivered a lecture on "Law of Contempt of Court in India" in Law Department, MMH College, Ghaziabad on 22 November 2023.

Sharma, Alok, Took Two Sessions on "Concepts of Jurisprudence" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVIII conducted by CBI Academy, Ghaziabad on 15 February 2024.

Sharma, Alok, Took Two Sessions on "Constitution" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVIII conducted by CBI Academy, Ghaziabad on 02 March 2024.

Sharma, Alok, Took Two Sessions on "Fundamental Rights" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVIII conducted by CBI Academy, Ghaziabad on 16 March 2024.

Sharma, Alok, Conducted Two Day Workshop on "Innovations in Alternative Dispute Resolution" in Law Department, MMH College, Ghaziabad on 19-20 March 2024.

Sharma, Alok, Took Two Sessions on "Constitution and Concept of PIL" in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVIII conducted by CBI Academy, Ghaziabad on 23 March 2024.

Sharma, Alok, Took Two Sessions on “Indian Penal Code with corresponding sections of Bhartiya Nyaya Sanhita” in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVIII conducted by CBI Academy, Ghaziabad on 10 April 2024.

Sharma, Alok, Took Two Sessions on “Indian Penal Code with corresponding sections of Bhartiya Nyaya Sanhita” in Basic Training (Phase-1) for Sub-Inspectors (Prob.) of CBI Batch XXVIII conducted by CBI Academy, Ghaziabad on 12, 16, and 18 April 2024.

Misra, Archana, Resource Person in Induction Training of Probationary Civil Judges (Jr. Div.) by Bihar Judicial Academy on ‘Introduction to Hindu Laws’ on 3 May 2023.

Misra, Archana, Resource Person in Lecture Series organized by Nirma University, Ahmedabad, in collaboration with The Shastri Indo-Canadian Institute (SICI) on “Engendering Laws” on the topic “Property and Inheritance” on 24 January 2024.

Misra, Siddhartha, Delivered lecture on Human Rights in Mewar College of Law, Ghaziabad on 23 and 27 May 2023.

Misra, Siddhartha, Delivered lecture on Human Rights in Institute of Legal Studies, CCS University Campus on 13 October 2023.

Misra, Siddhartha, delivered lecture on Public International Law in Institute of Legal Studies, CCS University Campus on 4 November 2023.

Misra, Siddhartha, delivered Lecture as Guest of Honour on the theme, "India the Mother of Democracy on the Constitution Day Programme", organised by NLU Sonipat on 29 November 2023.

Extension and Outreach Activities

NSS LC-1 organized the following outreach activities:

Women’s Right in Property by NSS, LC-1 on 1st April, 2023.

29th Commemoration of the 1994 Genocide by NSS, LC-1 on 7th April, 2023.

Yoga & Meditation Session by NSS, LC-1 on 8th April, 2023

Give me Trees Workshop by NSS, LC-1 on 13th April, 2023

Ambedkar Jayanti Celebration by NSS, LC-1 on 14th April, 2023

Cloth Donation Drive by NSS, LC-1 on 21st April, 2023

Adopted Village Visit (by project 48 A) by NSS, LC-1 on 24th April, 2023

National Conclave on Man Ki Baat at 100 (Vigyan Bhawan) by NSS, LC-1 on 26th April, 2023

National Conclave on Man Ki Baat at 100 (PM Museum) by NSS, LC-1 on 29th April, 2023

World Environment Day by NSS, LC-1 on 05th June, 2023

Yoga Event at University Stadium by NSS, LC-1 on 21st June, 2023

LSS LC-1 organized the following outreach activities:

Awareness campaign/Outreach on Domestic Violence and Legal Awareness by LSS, LC-1 on 11th June, 2023.

Awareness campaign/Outreach on The Rights of the Children Against Sexual Abuse, Exploitation and Trafficking by LSS, LC-1 on 2nd July, 2023.

Awareness campaign/Outreach on Constitutional Rights and Duties of the Citizens by LSS, LC-1 on 23rd July, 2023.

Faculty Strength

Law Centre-I has a total of 49 permanent faculty members (Professor – 09, Associate Professor – 04, and Assistant Professor – 36) and 20 guest faculty members.

LAW CENTRE-II

Brief Introduction

In pursuit of fulfilling the ambition to establish educational institutions with a focus on legal studies, Law Centre II took its stepping stone with an establishment in the year 1971 at ARSD College, Dhaula Kuan. Later, the institution relocated from ARSD College to the Faculty of Law, main campus in the year **2016** and celebrates its 50-year history and golden jubilee. Reflecting on its momentous history with progressive transformation, the institution began by conducting LLB classes in the evenings. However, it has now transitioned to offering full-fledged morning classes, offering a curriculum of unparalleled breadth and a wide range of legal research interests that collectively reflect the remarkable range of the faculty's expertise and interests.

The Centre also connects alumni across generations and a variety of career paths, fostering a lifetime of rewarding friendships. The LC-II alumni network includes bureaucrats, police officers, military officials, teachers, chartered accountants, doctors, engineers, and other professionals.

The Centre had the privilege of being headed by the top law scholars of India, such as Prof. Upendra Baxi, a well-known jurist and former Vice-Chancellor of the University of Delhi; Prof. Tahir Mahmood, who subsequently became Chairperson, Minority Commission; Prof. A.K. Koul, who was exalted to the position of Vice-Chancellor, National Law University, Jodhpur and National Law University, Ranchi; Prof. Gurdip Singh, who became Vice-Chancellor, National Law University, Lucknow; Prof. Poonam Saxena, who served as Vice-Chancellor, National Law University, Jodhpur twice; Prof. V.K. Ahuja, who became Vice-Chancellor of NLUJ, Assam; and the present Director of the Indian Law Institute. The students get unparalleled opportunities to study law with such extraordinary colleagues in the Centre's rigorous and collaborative environment.

Major Activities and Achievements

The Law Centre II hosts a number of academic visitors and research students annually, and it continues to celebrate its Golden Jubilee by enhancing its academic and socio-legal initiatives. Students and faculty at the centre develop enduring and collaborative relationships with leading legal practitioners. The Centre

established specialised academic societies, including the Constitutional Law Society, which engages faculty and students in exploring constitutional law issues. The Centre also founded the Judgement Understanding Society (JUS) to enhance members' legal knowledge by analysing significant judicial decisions.

In conjunction with these academic advancements, Law Centre II successfully completed the S.K. Puri Memorial International Moot Court Competition, entitled JUSTIFIED 2024. This event drew participants from various institutions, providing a platform for aspiring legal professionals to refine their advocacy skills and gain practical experience.

The Centre's active Legal Aid Committee exemplifies its commitment to community service. This committee organises legal aid camps and enables a substantial number of students to serve as Para Legal Volunteers (PLVs). Through these efforts, students gain hands-on experience in delivering legal assistance, contributing to social justice, and addressing the legal needs of underserved communities.

Honours/Distinctions

Faculty

Prof. Anupam Jha: Treasurer and Member Governing Body, Satyavati College, University of Delhi (2024 onwards); Member, Internal Complaints Committee, University of Delhi (2023-24); Member, Board of Studies (NLU Sonapat, BBAU Lucknow, Allahabad Central University, HNB Garhwal Central University, Punjabi University, Amity Law School, SRM University.

Dr. Ashwini Siwal; Appointed as Executive officer, University of Delhi Foundation; Member Secretary, Research & Development Cell, University of Delhi; Course Coordinator, Certificate Course on Patents, Research Council, DU.

Prof. Dr. Vageshwari Deswal; Awarded, “Mahila shakti Vandan” award by NGO Kaveri at IIC, Delhi on 13th March, 2024; Member of Academic Advisory Committee of Swayam Prabha’s Law Channel at IIT Kanpur; Member of ICC to look into Complaints of Sexual Harassment constituted by Delhi High Court; Member ICC, Dronacharya College Gurgaon; Member ICC, Government College, Sector 9 Gurgaon; Member of Departmental Advisory Committee at Faculty of Law, Tezpur University, Assam; External Expert Member of Board of Studies, School of Law, Galgotia’s University; Member Board of studies for Gurugram University; Member Board of studies for School of Law, Northcap University; Member of Advisory Board for School of Law, KR Manglam University; Member of Advisory council of School of Law, Sushant University; Member Editorial Board of Kashmir Law Review; Editor in Chief of IJLRES, a multi-disciplinary journal under the aegis of jus-corpus

Publications

UGC Care listed Journal

- Jha, A., & Sehrawat, V. (2023). Examining the Road to Dubai (COP28): India’s Role and the Way Forward, *Indian Society of International Law*, Vol 63.
- Siwal, A. (2023). Introduction to Standard Essential Patents Part –III, *Journal of Intellectual Property Rights, CSIR-NIScPR*, Vol 28 No. 3, May 2023
- Siwal, A. (2023). The SEPs Debate and Surrounding Issues: Part -IV, *Journal of Intellectual Property Rights, CSIR-NIScPR*, Vol 28 No. 4, May 2023

- Siwal, A. (2023). SEP Litigations & Issues in Determining the FRAND License, *Journal of Intellectual Property Rights, CSIR-NIScPR*, Vol 28 No. 5, May 2023

Book Chapters

Deswal, V. "The Gender Skew behind Acid Attacks and the Law" Introduction to Law and Governance in India (ed.) Dr. Varun Chachar & Dr. Vijay Verma, Acumen Publishers, the Netherlands, 2023. ISBN:978-90-83024-21-9

Deswal, V. "Changing Dimensions of Reproductive Rights of Women in India", Changing Dimensions of Constitutional Rights in India (ed.) Dr. Jitender Singh Dhull, Radhika Publishers, New Delhi, 2023. ISBN: 978-93-91819-24-8

Sirohi, P. (2023) Need to Incorporate Sustainable Development Goals in Higher Education Curricula, *Routledge (Taylor & Francis Group), New York*, ISBN No. 978-1-032-15103-8, Pg. 259-270

Sirohi, P. (2023) Constitutional Reforms in India during the last 75 years, *VL Media Solutions, New Delhi*, ISBN No. 978-81-963198-1-6, Pg. 100-114

Sirohi, P. (2023) Reformation of UN for Effective Implementation of Peace Agenda in World, *Institute of Objective Studies, New Delhi*.

Kumar, A. (2024) "Legal Immunity of International Organisations: Reception, Praxis, and Trend in India" in Indian Practice of International Law Global Norms and their Domestic Enforcement, *Routledge (Taylor & Francis Group) London, UK*, ISBN No. 978-1032017433, pg. 118-136.

Journals published by the department

Deswal, V. Delhi Journal of Contemporary Law, Law Centre II, Faculty of Law, University of Delhi, NA, 5, 1-165

Research Projects

- Dr. Ashwini Siwal, IOE, DU FRP GRANT, Machine Learning-Driven Patent Analytics and Public Health Innovation, Rs. 2lacs
- Dr. Ashwini Siwal (CO-PI) ICSSR MAJOR GRANT, North East, Rs 15 lacs
- Prof. Vasudha Bhatnagar, Department of Computer Science, University of Delhi, University of Delhi, Minor research grant under Faculty Research Programme (FRP) of the IoE scheme, Rs. 30, 000 (CO-PI: Parikshet Sirhoi)

Seminars Organized

Pradeep Rai, Mandeep Baisala, Sahil Mongia & Prof. Anupam Jha, Sr. Advocate and Advocate, Supreme Court of India and PIC, LC-II, Law Centre-II, University of Delhi, "Beyond the Bench: Unveiling Careers in Litigation for First-Gen Lawyers," 22-12-2023.

Prof. B.T. Kaul, Manbir S. Nalwa & Prof. Anupam Jha, Ex-Chairperson, Delhi Judicial Academy, Ex-Addl Advocate General of Punjab & PIC, LC-II, Law Centre-II, University of Delhi, "Orientation Programme of Judgment Understanding Society (JUS)," 23-11-2023.

Prof. (Dr.) Alka Chawla, Meenakshi Lekhi, Professor-in-Charge, Hon'ble Union Minister of State for External Affairs and Culture, Campus Law Centre, Law Centre-II, University of Delhi, "CONTRIBUTION OF YOUTH TOWARDS VIKSIT BHARAT@2047," 12-03-2024.

Tariq Khan, Advocate, Law Centre-II, University of Delhi, "Beyond Litigation: Resolving Conflicts through Alternative Dispute Resolution," 28-11-2023.

Adv. Sonal Kharbanda, leading expert in Mediation, Law Centre-II, University of Delhi, "Intricacies of Mediation," 19-12-2023.

Sri Lakshmi Narayan Bhala ji, Constitutional thinker, Law Centre-II, University of Delhi, "Constitution," 11-01-2024.

Dr. K.L. Dhingra, Head, Centre for Insolvency & Bankruptcy, Indian Institute of Corporate Affairs, Law Centre-II, University of Delhi, "Interactive Taster Session on Graduate Insolvency Programme," 20-04-2023.

Dr. Maurya Vijay Chandra, Founder & Partner, Adyopant Legal Services, LC-II Entrepreneurial Law Clinic, LC-II, DU, "Online Workshop on Trademark Search," 01-05-2023.

In Collaboration with Special Police Unit North East Region, North East Cell, LC-II, "Sensitization Programme on Northeast India", 22-08-2023.

J. Sudhir Agarwal Sri Sushant Changotra, Legal Aid Society, Law centre II, "Unbound: Empowering Lives with Free Legal Aid (Induction and orientation Programme)," 09-12-2023

Outreach programme by students and teachers, Legal Aid Society, Law centre II, Door to Door Outreach programme for Legal awareness in Block D, Kabir Basti, Malka Ganj, 01-06-2024.

Dr. Luther Rangreji, joint Secretary, legal and Treaties division, Ministry of External Affairs, Government of India, International Law Cell, Law Centre II, "Career in International Law" 04-11-2023.

H.E. Dr. kamalinne pinitpuvadol, Secretary General, Asian African Legal Consultative organisation, New Delhi, International Law Cell, Law Centre II, "AALCO and Contemporary Challenges in International Law & Final round of Debate competition on topic "International Law is not a law" 11-08-2023.

Lakshmi Narayan Bhala, Constitutional Thinker, CONSTITUTIONAL LAW SOCIETY, LCII, "SAMBIDHAN KI JANMKATHA" 11-01-2024.

Dr. Pramod Tiwari and Adv. Kumar Abhishek, Assistant Professor, Law Centre-II, Adv. Supreme Court of India, Equal Opportunity Cell, "Law Student's Talk Series- Episode 1" 12-12-2023.

Dushyant Sing & Research and Investigation wing of NHRC, Deputy Supritendent of Police, Legal Aid Society, Law centre II, "ONE DAY TRAINING SESSION (Workshop) FOR STUDENTS of LC-II AT N.H.R.C." 03-10-2023.

Dushyant Sing & Research and Investigation wing of NHRC, Deputy Supritendent of Police, Legal Aid Society, Law centre II, "ONE DAY TRAINING SESSION (Workshop) FOR STUDENTS of LC-II AT N.H.R.C." 03-11-2023

Seminar/Conference Presentations (National / International)

Dr. Ashwini Siwal, "Lecture on IPR, Invited Lecture", University Five Year Law College, University of Rajasthan, 05-04-2023

Dr. Ashwini Siwal, “IPR Portfolio for Public Research Organisations, Workshop on IPR Issues in Horticulture Sciences”, ICAR-CISH, Lucknow, 13-04-2023

Dr. Ashwini Siwal, “Lecture on Ambedkar's Concept of property as Guest of Honour”, 17th Baba Saheb Dr. Bhim Rao Ambedkar College Memorial Lecture, Dr. Bhim Rao Ambedkar College, DU, 13-04-2023

Dr. Ashwini Siwal, “Importance of IPRs, 17th Baba Saheb Dr. Bhim Rao Ambedkar Invited lecture”, SJKCK, MDU, 15-04-2023

Dr. Ashwini Siwal, Lead Statement on “Artificial Intelligence & Judiciary”, “National Conference on Working of Indian Judicial System” Indian Law Institute, 22-04-2023

Dr. Ashwini Siwal, A prolegomenon to IPRs, by Indian Law Institute.,_Invited talk on World IP Day,_Dr. B. R. Ambedkar National Law University Haryana, Sonapat, 26-04-2023

Dr. Ashwini Siwal, Resource Person,_Workshop on IP Rights and IP Management for Start-Ups, Lakshmibai college, DU, 26-04-2023

Dr. Ashwini Siwal, Resource Person, One Day National Seminar on the topic “Copyright Protection in Emerging Technologies: Issues and Challenges”, School of Law and Governance and Research and Development Cell of Central University of South Bihar, Gaya, 26-04-2023

Dr. Ashwini Siwal, Resource Person, One Day National Seminar on the topic “Copyright Protection in Emerging Technologies: Issues and Challenges”, 26-04-2023

Dr. Ashwini Siwal, IP Ecosystem and Commercialization- A Global Approach, WBNUJS Annual IP Meet 2023, DPIIT IPR Chair, WBNUJS, GOI 30-04-2023

Dr. Ashwini Siwal, “Role of Design, Copyright and Trademark: Scientific and Entrepreneurial Perspective, Workshop on “Role of Design, Copyright and Trademark: Scientific and Entrepreneurial Perspective”, ICAR-CIRCOT, Mumbai, 16-05-2023

Dr. Ashwini Siwal, “IPR and Copyright issues in Fisheries Sciences”, Workshop on “IPR and Copyright issues in Fisheries Sciences”, ICAR-CIFE, Mumbai, 16-05-2023

Dr. Ashwini Siwal, “Technology Law & Public Policy”, One day international E-Conference on Technology Law & Public Policy, WBNUJS, Kolkata, 23-09-2023

Dr. Ashwini Siwal, “Technology Law & Public Policy”, One day international E-Conference on Technology Law & Public Policy, 23-09-2023

Dr. Ashwini Siwal, “IP Protection & its Management in reference to Patents”, Workshop on IP Management in Oilseed Crops, ICAR-IIOR, Hyderabad, 25-09-2023

Dr. Ashwini Siwal, “Overview of IPRs”, Short course on patents in Agriculture,_ICAR, New Delhi, 16-01-2024

Dr. Ashwini Siwal, “Copyright Management in Public institutions, One month orientation of Wise-IPR, TIFAC, DST INDIA, 30-01-2024

Dr. Ashwini Siwal, “Law & Technology”, Certificate course on IPRs,_Chanderprabhu Jain College of Higher Studies & School of Law. 30-01-2024

Dr. Amrendra Kumar, Assistant Professor, Vith IPIRA Conference, Biomedical Research, Gene Editing and Public Health, Girijananda Chowdhury IPIRA & FTU, Hanoi, Viet Nam, 26-04-2023

Dr. Amrendra Kumar, Assistant Professor, IOS International Conference, Challenges for Appropriate Implementation of SDGs for Universal Peace, Institute of Objective Studies, New Delhi 17-02-2023

Dr. Sumiti Ahuja, Assistant Professor, National Seminar on Exploring New Frontiers in Forensic Science and Anthropology, Department of Anthropology, University of Delhi. 02-02-2024.

Dr. Sumiti Ahuja, Assistant Professor, 2nd International Conference on Forensic Justice, A study of issues and challenges in collection, examination, and admissibility of forensic evidence in India", National Forensic Sciences University, School of Law, Forensic Justice and Policy Studies in collaboration with Indian Council of Social Science Research. 09-16-2023.

Dr. Bhupesh Rathore, Assistant Professor, Campus Recruitment Training Program, JECRC University, Jaipur, Rajasthan, 18-09-2023

Dr. Bhupesh Rathore, Assistant Professor, Extension Lecture - Sexual Harassment of Women at Workplace Act 2013 and Property rights of women, Govt. college for Girls, Sector-14, Gurugram (Haryana), 30-01-2024

Dr. Jupi Gogoi, Assistant Professor, Special Lecture - IPR: Contemporary Issues, Centre of Excellence for Laws Relating to IPR, School of Law, Amity University, Chhattisgarh, 25-04-2023

Dr. Jupi Gogoi, Assistant Professor, Keynote speaker in the Faculty Development Program, Introduction to GI. 04-05-2023

Dr. Jupi Gogoi, Assistant Professor, Keynote speaker in the Faculty Development Program, GI: Issues and Concerns, MNLU, Nagpur 12-01-2024.

Dr. Jupi Gogoi, Assistant Professor, Resource Person for World IP Rights Day Intellectual Property Rights: Concepts, Girijananda Chowdhury University Chhattisgarh, 26-04-2023

Dr. Pramod Tiwari, Resource Person, CPC Lectures, BIPARD, GAYA. 16-03-2024

Dr. Pramod Tiwari, Resource Person, CPC Lectures, BIPARD, GAYA. 3-02-2024

Dr. Pramod Tiwari, Resource Person, Human Rights Day. IPEM Law Academy, 12-09-2023

Dr. Pramod Tiwari, Moderator & Resource Person, National Conference BHU Law Conference, 03-02-2024

Dr. Parikshet Sirohi, "Evolution and Evaluation of Presently Used Teaching Methods in Law", Lawyers' Conference on Teaching and Experiential Learning in Law, IILM University, Greater Noida, 01-04-2023

Dr. Parikshet Sirohi, "Coca-Cola, KFC and McDonald's: Evolving Trends of Trade Secret and Confidential Information", Guest Lecture Series, Symbiosis Law School, 08-04-2023

Dr. Parikshet Sirohi, "Women and IP: Accelerating Innovation and Creativity", Guest Lecture Series, School of Legal Studies, Apeejay Styra University, Gurugram, 08-04-2023

Dr. Parikshet Sirohi, "NDPS Act", Core Competence Programme on Knowledge, Skill and Perspective Development" for Assistant District Attorneys of Govt. of Haryana, Haryana Institute of Public Administration (HIPA), Gurugram, 28-04-2023

Dr. Parikshet Sirohi, "Understanding the Legal Framework of Examination of Forensic Evidence in India", Core Competence Programme on Knowledge, Skill and Perspective Development" for Assistant District Attorneys of Govt. of Haryana, 28-04-2023

Dr. Parikshet Sirohi, “Media Laws: Copyright Act and Press Council Act”, Guest Lecture Series, IILM University, Greater Noida, 08-04-2023

Dr. Parikshet Sirohi, “Patentable and Non-Patentable Inventions”, Certificate Course on Patents, University of Delhi, 03-05-2023

Dr. Parikshet Sirohi, “Legal Education and National Education Policy 2020”, Faculty Development Programme (FDP) on “Emerging Trends in Legal Education, Research and Pedagogy”, IFIM Law School, Bengaluru, 22-05-2023

Dr. Parikshit Sirohi, “Institutional-cum-Revenue Training of Haryana Civil Service (Executive Branch) Officers” at “Haryana Institute of Public Administration (HIPA), Gurugram”, Haryana Institute of Public Administration (HIPA), Gurugram 22-06-2023

Dr. Parikshit Sirohi, “Juvenile Justice Act” at “Institutional-cum-Revenue Training of Haryana Civil Service (Executive Branch) Officers”, Haryana Institute of Public Administration (HIPA), Gurugram, 22-06-2023

Dr. Parikshit Sirohi, “Banking Frauds” on “Three-day Training Programme on Cyber Crime”, Haryana Institute of Public Administration (HIPA), Gurugram, 05-07-2023

Dr. Parikshit Sirohi, “Three-day Training Programme on Cyber Crime”, Haryana Institute of Public Administration (HIPA), Gurugram, 05-07-2023

Dr. Parikshit Sirohi, “The Haryana Compulsory Registration of Marriages Act, 2008” on “Three-day Training Programme on Cyber Crime”, Haryana Institute of Public Administration (HIPA), Gurugram 13-07-2023

Dr. Parikshit Sirohi, “The Prohibition of Employment as Manual Scavengers and Rehabilitation Act, 2013” on “Institutional-cum-Revenue Training of Haryana Civil Service (Executive Branch) Officers”, Haryana Institute of Public Administration (HIPA), Gurugram, 13-07-2023

Dr. Parikshet Sirohi, “The Cinematograph Act, 1952” on “Institutional-cum-Revenue Training of Haryana Civil Service (Executive Branch) Officers”, Haryana Institute of Public Administration (HIPA), Gurugram, 20-07-2023

Dr. Parikshet Sirohi, “The Cable Television Networks (Regulation) Act, 1995” on “Institutional-cum-Revenue Training of Haryana Civil Service (Executive Branch) Officers”, Haryana Institute of Public Administration (HIPA), Gurugram, 20-07-2023

Dr. Parikshet Sirohi, “Role of Courts in Developing Copyright Jurisprudence in India” on “Faculty Development Programme (FDP) in Law”, Gitarattan International Business School, New Delhi, 24-07-2023

Dr. Parikshet Sirohi, “Electronic Evidence” on “Three-day Training Programme on Prevention of Corruption Act”, Haryana Institute of Public Administration (HIPA), Gurugram, 23-08-2023

Dr. Parikshet Sirohi, “Juvenile Justice Act” on “Special Foundation Course for Indian Police Service, Indian Foreign Service, Indian Postal Service and other allied services”, Haryana Institute of Public Administration (HIPA), Gurugram, 21-09-2023

Dr. Parikshet Sirohi, “Managing Intellectual Property Rights” on “Leadership Capacity Development Programme for senior academic administrators of Indian Systems of Medicine”, National Institute of

Educational Planning and Administration (NIEPA) in collaboration with the National Commission for Indian System of Medicine (NCSIM), 22-09-2023

Dr. Parikshet Sirohi, “Online Sexual Harassment and Cyber Security” on “International Girl Child Day’ celebrations”, Delhi Legal Services Authority (DLSA), East Delhi district, 11-10-2023

Dr. Parikshet Sirohi, “Advocacy and Mooting Skills” on “Guest Lecture Series”, Moot Court Society, Department of Law, Maharaja Surajmal Institute, New Delhi, 14-10-2023

Dr. Parikshet Sirohi, “Understanding concepts of NDPS Act” on “Three-day Training Programme on Loopholes in Investigation”, Haryana Institute of Public Administration (HIPA), Gurugram, 07-11-2023

Dr. Parikshet Sirohi, “Cyber Crime in India: An Overview” on “One-day Online Webinar on ‘Cyber Crime and Cyber Security’”, UGC Pandit Madan Mohan Malviya Mission Teacher Training Centre, Kurukshetra University, Kurukshetra, 16-11-2023

Dr. Parikshet Sirohi, “Managing Intellectual Property Rights” on “Leadership Capacity Development Programme for senior academic administrators of Indian Systems of Medicine”, National Institute of Educational Planning and Administration (NIEPA) in collaboration with the National Commission for Indian System of Medicine (NCSIM), 23-11-2023

Dr. Parikshet Sirohi, “Role of Dr. B.R. Ambedkar in the Emancipation of Women in India” on “Leadership Capacity Development Programme for senior academic administrators of Indian Systems of Medicine”, Vijnan Institute of Law (VIL), Vijnan’s Foundation for Science, Technology & Research (Deemed to be University), Guntur, 25-11-2023

Dr. Parikshet Sirohi, “Managing Intellectual Property Rights” on “Leadership Capacity Development Programme for senior academic administrators of Indian Systems of Medicine”, National Institute of Educational Planning and Administration (NIEPA) in collaboration with the National Commission for Indian System of Medicine (NCSIM), 19-12-2023

Dr. Parikshet Sirohi, “Managing Intellectual Property Rights” on “Leadership Capacity Development Programme for senior academic administrators of Indian Systems of Medicine”, National Institute of Educational Planning and Administration (NIEPA) in collaboration with the National Commission for Indian System of Medicine (NCSIM), 12-01-2024

Dr. Parikshet Sirohi, “Banking Frauds” on “Training Programme on "Cyber Crime", Haryana Institute of Public Administration (HIPA), Gurugram, 25-01-2024

Dr. Parikshet Sirohi, “New Frontiers: Introduction to Dark Web and Tor Networks, and Digital Evidence therein” on “Training Programme on "Cyber Crime", Haryana Institute of Public Administration (HIPA), Gurugram, 25-01-2024

Dr. Parikshet Sirohi, “Managing Intellectual Property Rights” on “Leadership Capacity Development Programme for senior academic administrators of Indian Systems of Medicine”, National Institute of Educational Planning and Administration (NIEPA) in collaboration with the National Commission for Indian System of Medicine (NCSIM), 09-02-2024

Prof. Dr. Vageshwari Deswal, Resource person at National Colloquium on New Prof. Dr. Vageshwari Deswal, Criminal Laws, organised at Tezpur University Assam on 15th March, 2023

Prof. Dr. Vageshwari Deswal, Resource Person during Discussion on Same-Sex Marriage organised by Citizens Forum India on Nov 4th, 2023

Prof. Dr. Vageshwari Deswal, Delivered Lecture on “Trends in Education in Developed Countries” during one week FDP organized by Raffles University, Rajasthan on 13th August, 2023

Prof. Dr. Vageshwari Deswal, Resource Person during Discussion on ‘Reproductive Rights of Women in India’ organised by Citizens Forum India on October 14th, 2023

Prof. Dr. Vageshwari Deswal, Guest Lecture on UCC and Rights of Women at VIPS, New Delhi in Sept, 2023

Prof. Dr. Vageshwari Deswal, Guest Lecture at Dronacharya Govt College, Gurugram on POSH on 18th Sept, 2023

Prof. Dr. Vageshwari Deswal, Keynote Speaker in National Conference on “Women Across Disciplines” Organised by Rajasthan University at Jaipur on from 7-8th August, 2023

Prof. Dr. Vageshwari Deswal, Conducted training program on POSH for officers from WCD, Govt of Haryana at Divisional Centre, HIPA Rohtak on 25th August, 2023

Prof. Dr. Vageshwari Deswal, Resource person during FDP on Human Transformation, Laws and Social Sciences organised by Kurukshetra University on 16th Oct, 2023

Prof. Dr. Vageshwari Deswal, Delivered Extension Lecture on “Sexual Harassment” at MD University Rohtak on 25th August, 2023

Prof. Dr. Vageshwari Deswal, Guest Lecture at University of Performing and Visual Arts, Rohtak in Dec, 2023

Prof. Dr. Vageshwari Deswal, Resource person at HIPA, Gurgaon for delivering lectures to Police, Prosecution, HCS, ITS, IPS, IRS and IAS officers at HIPA, Gurugram on Law relating to Women, Children and Criminal Laws.

Prof. Dr. Vageshwari Deswal, Conducted Training workshops for Food Corporation of India at Gurgaon

Contribution to Online study material

Prof. Dr. Vageshwari Deswal

Recorded Courses for SWAYAM Prabha Law Channel at IIT Kanpur (February 2024)

Bharatiya Nyaya Sanhita (20-hour course)

Prof. Dr. Vageshwari Deswal MOOCs Prepared for SWAYAM Course on Administrative Ethics and Governance (Recorded at EMRC, Patiala in September 2023)

Abortion and Feticide

Capital Punishment

Prof. Dr. Vageshwari Deswal MOOCs for SWAYAM Course on Regulatory Governance (August 2023)

Good Governance: Conceptual Framework

Bar Council of India

Dr. Ashwini Siwal

Recorded Courses for SWAYAM Prabha Law Channel at IIT Kanpur (March 2024)

Law, Science & Technology (20-hour course)

Placement Details : 24

Social Outreach

41 NSS volunteers of Law Centre -II, Faculty of Law, University of Delhi participated in 'Veer Bal Diwas' organised by Ministry of Women and Child Development at Bharat Mandappm, Pragati Maidan on 26/12/2023.

NSS Society of Law Centre -II, Faculty of Law, University of Delhi conducted a 'Winter Clothing Donation Drive' from 02/01/2024 to 07/01/2024. 3) NSS volunteers of Law Centre -II, Faculty of Law, University of Delhi participated in campaign " Mera Pehla Vote Desh ke Liye" conducted by Ministry of Education in collaboration with Ministry of Youth Affairs on 14/03/2024.

FACULTY OF MANAGEMENT STUDIES
BUSINESS MANAGEMENT & INDUSTRIAL ADMINISTRATION

Major Activities and Achievements

FMS has been consistently ranked as one of the top five business schools in the country. The institution is constantly on the go with its working hours from 9 a.m. to 9 p.m., six days a week. The majority of faculty members have been trained at Harvard Business School. The faculty continuously engages in consulting work and conducts training programs for private companies as well as government departments. The methods of engagement and teaching are enabled by world-class resources including Harvard Case Bank. The institution boasts cutting-edge research with a focus on national and international relevance.

The activities in sensitizing for social service take a completely different avatar at FMS. The MSA society-“Vihaan” handles all the social service activities across the campus. Vihaan has been fortunate to be associated with NGO's like Teach for India, Teach India, Rotary, Bhumi, Udayan Care, Rhythm of Life, ENACTUS, Jagruti, Datri and many more in areas like women empowerment, helping orphans, education, environment and health improvement. In the academic year Faculty of Management Studies received following awards: The Economic Times best Education Brands Award 2023, Best B-School (Return on investment) award Business World 2023.

Honours/Distinctions

Vivek Suneja received the Odhini Leadership Award for excellence in life for FMS in 2023

Publications

Scopus

Shekhar, & Das, D. (2023). Enablers of ‘creating shared value’: A total interpretive structural modeling–polarity approach. *Global Journal of Flexible Systems Management*, 24(2), 291-318.

Nijhawan, G., Gujral, H. K., & Singh, K. (2023). Perceived Organizational Support and Job Performance: Mediating Role of Organizational Citizenship Behavior. *Journal for ReAttach Therapy and Developmental Diversities*, 6(4s), 139-151.

Mangla, N., & Singh, K. (2024). Cultural Intelligence as a Strategic Approach to Change Management & the Mediating Role of Learning Organization. *International Journal of Global Business and Competitiveness*, 19(1), 49-61.

Aggarwal, P., & Agarwala, T. (2023). Relationship of environmental strategy and performance: Role of green human resource management. *International Journal of Business Environment*, 14(1), 37-66.

Aggarwal, P., & Agarwala, T. (2023). Relationship of green human resource management with environmental performance: mediating effect of green organizational culture. *Benchmarking: An International Journal*, 30(7), 2351-2376.

Guzmán-Rodríguez, L. E., Arizkuren-Eleta, A., Agarwala, T., & Bornay-Barrachina, M. (2023). Individual characteristics on multicultural team performance: does the role played by leaders and team members matter?. *Frontiers in Psychology*, 14, 1281422.

- Gupta, R., Verma, H., & Kapoor, A. P. (2024). Neuromarketing in predicting voting behavior: A case of National elections in India. *Journal of Consumer Behaviour*, 23(2), 336-356.
- Gupta, S., Lim, W. M., Verma, H. V., & Polonsky, M. (2023). How can we encourage mindful consumption? Insights from mindfulness and religious faith. *Journal of Consumer Marketing*, 40(3), 344-358.
- Malhotra, P., & Sinha, P. (2024). Balanced Funds in India Amid COVID-19 Crisis: Spreader of Financial Contagion?. *IIM Kozhikode Society & Management Review*, 13(1), 7-24.
- Sinha, P., & Vodwal, S. (2023). Effect of subprime crisis on financing decisions and capital structure of Indian firms: a pre-and post-crisis study using system GMM methodology. *Journal of Advances in Management Research*, 20(3), 329-352.
- Kumar, A., & Sinha, P. (2024). Changing dividend payout behavior and predicting dividend policy in emerging markets: evidence from India.
- Singhania, M., Chadha, G., & Prasad, R. (2023). Sustainable finance research: review and agenda. *International Journal of Finance & Economics*.
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- Shri, C., Verma, A., Gupta, G., & Kumra, R. (2023). Prioritizing Factors of Panic Buying Behaviour: A Neutrosophic Analytical Approach. *IIM Kozhikode Society & Management Review*, 22779752231166186.
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- Kalsie, A., & Singh, N. (2023). Deal Size and Synergy Gains: A Case of Indian M&A. *Vikalpa*, 48(4), 255-268.
- Kalsie, A., & Yadav, A. (2023). Drivers of WACR-Repo Rate Spread: An Empirical Analysis of India. *Global Business Review*, 09721509231166257.
- Dubey, P., & Dey, S. (2023). Inflationary Effect of Agricultural Commodity Futures Market in India: Is it There and Should we Care?. *Vision*, 09722629231168692.
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- Gupta, S., Goel, S., Kumar, S., & Nagpal, G. (2024). The analysis of performance due to impact of bullwhip effect in Covid: select Indian sector perspective. *Journal of Global Operations and Strategic Sourcing*.
- Oktavio, A., Kaihatu, T. S., Kumari, D., Nugroho, A., & Adityaji, R. (2023). Slept well and i will be back: an empirical study on hotel guests in Indonesia..

Kumar, V., Verma, A., & Kumar, A. (2023). What are the best practices for End-of-Life Vehicle management—A practical assessment of estimates, perceptions and policies. *Management of Environmental Quality: An International Journal*, 34(6), 1626-1646.

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Goswami, A. K., Sinha, A., Goswami, M., & Kumar, P. (2024). Explicating the mapping between big data and knowledge management: a systematic literature review and future directions. *Benchmarking: An International Journal*.

Antil, A., Saini, N., Sehgal, S., Aggarwal, S., & Shahzad, U. (2023). Effectiveness of metaphorical communication in government campaign on Digitization. *FIIB Business Review*, 23197145231166746.

Shri, C., Saini, N., Kumar, D., & Kharb, R. (2024). Analyzing the Hierarchical Structure of Enablers Affecting Indian Banks' Merger and Acquisition Financing Decisions. *Global Business Review*, 09721509241227777.

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Kaur, J., Bhardwaj, N., Fernandes, R., Vidya, V., & Farooqui, N. A. (2023). A meta-analytical study on the role of religiosity on purchase intention in the theory of planned behavior. *Journal of Islamic Marketing*, 14(11), 2845-2870.

Das, D., & Singh, A. (2023). Optimizing the delivery schedule of equipment in a project environment considering resource leveling of storage space and its constraint: a case study. *Journal of Advances in Management Research*, 20(5), 781-800.

Sarkar, A., Das, D., & Debroy, A. (2024). Panic Buying, Product Substitution and Channel-Shifting Behaviour During Pandemic. *IIM Kozhikode Society & Management Review*, 13(1), 25-43.

UGC

Chadha, K., & Verma, H. V. (2023). Purpose, Semiotics and Rhetoric: A Study of Select Brands. *Journal of Business Thought*, 75–86.

Malhotra, P., & Sinha, P. (2023). Exchange-traded Funds in India Amid COVID-19 Crisis: An Empirical Analysis of the Performance. *Metamorphosis*, 22(1), 38-54.

Kalsie, A., & Kalra, J. K. (2023). Capital Account Liberalisation and Crises: A Meta-Analysis. *The Indian Economic Journal*, 71(2), 300-320.

Web Science

Mukherjee, S., & Singh, K. (2024). Social-Support Sword or Shield? Role of Differentiated Social-Support across Social-Contexts—Conceptual Framework. *Basic and Applied Social Psychology*, 46(3), 110-129.

Research Projects

ICSSR, Amit Kumar Bardhan, A study of the implications of COVID-19 pandemic on the practice of telehealth and development of a scalable model for implementing optimal delivery of tele-healthcare, 8,00,000

ICSSR, Dezy Kumari (Co-PI) , Impact of DBT scheme of GOI on financial inclusion: An Assessment , Rs. 14,99,000

IOE, DU, Vivek Soni, GAMEX Model in Indian Education , Rs. 3,00,000

Seminar/Conference Presentations (National / International)

International/ National

Pankaj Sinha, 2024-02-21, presented a paper titled “Do dividends signal earnings quality in the emerging markets? Large sample evidence from India” in 3rd International Conference on Recent Trends in Engineering, Technology and Business Management (ICRTETBM 2024) organized by Amity University.

Pankaj Sinha, 2023-04-08, delivered a talk titled “Operational Risk in Indian Banks: Measurement and Management in the Digital Era in Digitalisation and Inclusive Banking: Vision for the Next 25 Years” organized by Indian Institute of Technology, Roorkee

Monica Singhania, 2023-08-23, presented a paper titled “eGovernance Cases: API Setup in IIMB Public Policy Conference organized by IIM Bangalore.

Amit Bardhan, 2023-12-20, presented a paper titled “A Model for Point-To-Point Airline Network Design Where Demand is Function of Network Characteristics” in a JOINT EVENT: 56th Annual Convention of ORSI (2023-ORSI) and 10th International Conference on Business Analytics and Intelligence (2023-ICBAI) organized by Indian Institute of Science, Bangalore

Narain, 2023-06-10, delivered a session on “Stationarity Analysis of Time Series Data” in FDP for Online Certificate Programme on Econometric Applications in Social Science Research organized by ASBM University, Odisha.

Narain, 2023-06-12, delivered a session on “GARCH Modelling in FDP for Online Certificate Programme on Econometric Applications in Social Science Research organized by ASBM University, Odisha.

Narain, 2023-07-25, delivered a session on “Event Study Methodology” in Workshop on Event Study Methodology organized by RD Institute of Advanced Studies, Delhi

Narain, 2023-08-08, delivered a session on “Introduction to Using R” in FDP on Getting Started with RStudio organized by Gargi College, Delhi University

Narain, 2023-08-23, delivered a session on “Event Study Methodology” in Workshop on Event Methodology in Research organized by LBS Institute of Management, Delhi.

Narain, 2024-01-08 delivered a session on “Measures of Association & Correlation” in FDP on Econometric Tools and Techniques for Research organized by Medi-Caps University, Indore.

Narain, 2024-01-21, delivered a session on “Data Analytics using MS Excel” in an Online Workshop on MS Excel organized by Gargi College, Delhi University

Soma Dey, 2023-07-07, presented a paper titled “Does corporate governance influence firms’ credit ratings? Evidence from India” in ICFMCF 2023 International Conference by Department of Management organized by IIT Delhi.

Soma Dey, 2024-01-16, delivered a session on “Teaching with Cases” in FDP at the Department of Management organized by K.R. Mangalam University.

Soma Dey, 2024-02-15, delivered a talk on “How to ace the GD/PI Round?” Seminar for students organized by The Commerce Society of Satyawati College, University of Delhi

Soma Dey, 2024-03-01, delivered a session on “IPR and Innovation in International Workshop organized by National Institute of Labour Economics Research and Development (NILERD).

Santosh Kumar, 2024-01-19, presented a paper titled “An optimization model for a sustainable transportation problem for location of refueling stations” in International Conference on Operations Research and Game Theoretic Approach in Decision Making organized by Indian Statistical Institute (ISI), Delhi

Dezy Kumari, 2023-06-16, presented a paper titled “Transitioning from Informality to Formality: In Policy Context” in International conference on Structural Transformation and the Indian Labour Market organized by Goa Institute of Management.

Vivek Soni, 2023-12-16, presented a paper titled “Modeling NEP Propositions: A Sustainable Higher Education Framework for Managing Future Industrial Operations in 26th Annual Conference of the Society of Operations Management organized by Indian Institute of Management, Shillong.

Vivek Soni, 2023-12-20, presented a paper titled “Modeling NEP 2020 Propositions for Future Industrial Disruptions” in 10th International Conference on Business Analytics and Intelligence organized by Indian Institute of Science, Bangalore

Anabel Benjamin Bara, 2023-10-16, presented a paper titled “Sustainable AgriFood System and Indigenous Languages in Good food for all, for today and tomorrow” organized by UN-FAO, Rome.

Anabel Benjamin Bara, 2023-10-20, presented a paper titled “Indigenous Youth Climate Action and COP 28 in Good food for all, for today and tomorrow” organized by UN-FAO, Rome.

Nabajyoti Deka, 2023-11-01, presented a paper titled "Indigenous Entrepreneurship and Sustainable Agricultural Development: Insights from the Case of ‘Darjeeling Tea’ from the Eastern Himalayan Region, India" in Global Development Conference 2023 organized by Global Development Network

Nabajyoti Deka, 2024-03-07, presented a paper titled "Can Integrated CSR Promote Self-sustaining Microenterprises in Rural-Agrarian Societies? Lessons from the Case of an Energy Firm’s Initiatives in Odisha, India" in International Conference on Responsible Production and Consumption organized by University of Hyderabad

Neha Saini, 2023-07-01, presented a paper titled “Exploring the hierarchical structure of Enablers affecting Indian Banks Financing Decisions in Research Conclave at SPMIR, Mumbai organized by SPMIR, Mumbai

Aastha Verma, 2024-01-31, presented a paper titled “Embracing sustainable solutions: Overcoming barriers to eco-friendly packaging adoption for better future in Indian Institute of Management Shillong (IIM - S), 3rd International Marketing Conference organized by IIM – Shillong

Aastha Verma, 2024-03-14, delivered a session on “Understanding Research Paradigms a foundation for research methodology” in ICSSR Sponsored Five Day Workshop organized by Lingayas Lalita Devi Institute of Management and Sciences

Neha Bhardwaj, 2023-12-16, delivered a session on, “Sustainability Communication in Higher Education: Holistic Development in One Week Interdisciplinary FDP on Integrating Sustainability in Higher Education organized by Hansraj College in Collaboration with Shyam Lal College

Shikha Sachdeva, 2024-02-12, presented a paper titled “Factors affecting the performance of LGBTQIA+ community in workplace: A study of Indian employees” in Global Strategic Management Conference 2023-24 on DEI and Mental well-being challenges organized by DME Management School in collaboration with Northern Uni, Sri Lanka.

Debadyuti Das, 2023-05-24, presented a paper titled “Distribution Network Design in Public Health for Essential Medicines: An Investigation” in 33rd Annual POMS Conference held at Orlando, USA during May 21-25, 2024 organized by POMS, USA

Debadyuti Das, 2023-12-06, presented a paper titled “A Decision Framework for the Choice of Public Health Distribution Networks for Essential Medicines in a Geographical Region based on Qualitative Criteria” in POMS India International Conference 2023 organized by XLRI, JamshAlo Nag

Placement Details: 251

Extension and Outreach Activities

Some extension and outreach activities for the students have been taken up during the year by the Entrepreneurship Cell of FMS. These prominent activities included the Basecamp event where 20+ startups pitched to marquee venture capitalists to raise funds. Regular speaker sessions under the event name ‘Confluentis’ were organized wherein more than 30 well-known Entrepreneurs shared their journey and experience with students. In addition to this, the E-cell organized its annual E-summit event that hosted influential members of the entrepreneurship community on the campus. This summit also provides a launchpad to connect budding entrepreneurs from FMS with prolific alumni to help them shape their business ideas into a valid business plan for the future.

Ecasports

The United Crew (TUC) Imperio, IIML ManFest Varchasva Dance 1st Runner Up Nritya

The United Crew (TUC) Inferno, IIML ManFest Varchasva Dance National Finalist Nritya

Shashank Tyagi, Prakrut Chauhan Brandblitz Quiz by Storyboard Quiz National Semi Finalist FAQ

Shashank Tyagi Barefoot Quiz Fest Quiz Best Student Quizzer FAQ

Shashank Tyagi, Ankita Shandilya, Mohd. Mahatab Conquest 2024, CLPR Quiz National Finalists FAQ

Shashank Tyagi, Mohd Mahatab Rajagiri National Buisness Quiz, Rajagiri Business School Quiz National Semi Finalist FAQ

Shashank Tyagi Pulse, AIIMS Delhi Quiz National Winner FAQ

Shashank Tyagi, Sushant Adlakha NTPC Quiz, NTPC Quiz National 2nd Runners Up FAQ

Ankita Shandilya, Mohd.Mahatab NTPC Quiz, NTPC Quiz National Semi Finalist FAQ

Shashank Tyagi, Ankita Shandilya COMQUEST, Christ Commerce College, Kerala Quiz National Winner FAQ

Shashank Tyagi, Ankita Shandilya Fundamental Quiz, Jain University, Bangalore Quiz Best College Team, National 2nd Runner up (Open Category) FAQ

Shashank Tyagi, Ankita Shandilya India Quiz, IIMA Quiz Fest Quiz National Winner FAQ

Shashank Tyagi, Ankita Shandilya Buisness Quiz, IIMA Quiz National Winner FAQ

Shashank Tyagi, Ankita Shandilya MELA Quiz , IIMA Quiz Fest Quiz National 1st Runner up FAQ

Shashank Tyagi, Ankita Shandilya General Quiz, IIM Lucknow Quiz Fest Quiz National Winner FAQ

Shashank Tyagi, Ankita Shandilya India Quiz, IIM Lucknow Quiz Fest Quiz National Winner FAQ

Aakhyat Singh, Prakrut Chauhan QoTB, TAPMI Quiz Zonal Finalists, Delhi FAQ

Shashank Tyagi, Sushant Adlakha QoTB, TAPMI Quiz Zonal Finalists, Delhi FAQ

Shashank Tyagi, Sushant Adlakha Tech Quiz, IIT Delhi Quiz Winners FAQ

Siddhant Yadav, Omved KV, Riya Maithili Vantage, IIFT Delhi Filmmaking Best Director Award Tamasha

Palak Chaturvedi Izhaar- The monoacting competition, IIM L Acting National First Runner Up Abhinay

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 15

Faculty Strength

Total: 39

FACULTY OF MATHEMATICAL SCIENCE
COMPUTER SCIENCE

Major Activities and Achievements

The M.Tech. Programme approved by Academic Council and Executive Council.

Prof. Punam Bedi: STANFORD-ELSEVIER RANKING OF THE TOP 2% OF RESEARCHERS

Prof. Naveen Kumar and Dr. Ankit Rajpal received a research publication award from IoE, University of Delhi.

29-04-2023 to 30-04-2023 Technical Fest Sankalan <https://ducs.in/sankalan/>

Srijan is the annual magazine of the Department of Computer Science, University of Delhi. Last year, the 12th volume of this magazine was published.

Publications

Scopus/ Web of Science/ UGC Care-listed Journal

Rajpal, A., Sehra, K., Mishra, A., & Chetty, G. (2023). A low-resolution real-time face recognition using extreme learning machine and its variants. *The Imaging Science Journal*, 71(5), 456-471.

Dwivedi, K., Rajpal, A., Rajpal, S., Kumar, V., Agarwal, M., & Kumar, N. (2023). XL1R-Net: Explainable AI-driven improved L1-regularized deep neural architecture for NSCLC biomarker identification. *Computational Biology and Chemistry*, 108, 107990.

Dwivedi, K., Rajpal, A., Rajpal, S., Kumar, V., Agarwal, M., & Kumar, N. (2023). Enlightening the path to NSCLC biomarkers: Utilizing the power of XAI-guided deep learning. *Computer Methods and Programs in Biomedicine*, 243, 107864.

Rajpal, A., Kumar, S., Sharma, N. K., Abraham, A., Mishra, A., & Kumar, N. (2023). CXRmark: A Watermarking Scheme for Chest X-Rays Using Online Sequential Reduced Kernel ELM. *Circuits, Systems, and Signal Processing*, 43(2), 965-993.

Dua, V., Rajpal, A., Rajpal, S., Agarwal, M., & Kumar, N. (2023). I-FLASH: Interpretable Fake News Detector Using LIME and SHAP. *Wireless Personal Communications*, 131(4), 2841-2874.

Mishra, R., Kavita, Rajpal, A., Bhatia, V., Rajpal, S., Agarwal, M., & Kumar, N. (2024). I-LDD: an interpretable leaf disease detector. *Soft Computing*, 28(3), 2517-2533.

Rajpal, S., Rajpal, A., Agarwal, M., Kumar, V., Abraham, A., Khanna, D., & Kumar, N. (2023). XAI-CNVMarker: Explainable AI-based copy number variant biomarker discovery for breast cancer subtypes. *Biomedical Signal Processing and Control*, 84, 104979.

Rajpal, S., Rajpal, A., Saggarr, A., Vaid, A. K., Kumar, V., Agarwal, M., & Kumar, N. (2023). XAI-MethylMarker: Explainable AI approach for biomarker discovery for breast cancer subtype classification using methylation data. *Expert Systems with Applications*, 225, 120130.

Dwivedi, K., Rajpal, A., Rajpal, S., Agarwal, M., Kumar, V., & Kumar, N. (2023). An explainable AI-driven biomarker discovery framework for Non-Small Cell Lung Cancer classification. *Computers in Biology and Medicine*, 153, 106544.

- Bedi, P., Gole, P., & Marwaha, S. (2024). PDSE-Lite: lightweight framework for plant disease severity estimation based on Convolutional Autoencoder and Few-Shot Learning. *Frontiers in Plant Science*, 14, 1319894.
- Gole, P., Bedi, P., Marwaha, S., Haque, M. A., & Deb, C. K. (2023). TrIncNet: a lightweight vision transformer network for identification of plant diseases. *Frontiers in Plant Science*, 14, 1221557.
- Kumari, T., Gupta, B., Sharma, R., & Bedi, P. (2023). Empowering reciprocal recommender system using contextual bandits and argumentation based explanations. *World Wide Web*, 26(5), 2969-3000.
- Kumari, T., Sharma, R., Gupta, B., & Bedi, P. (2023). Generating Popularity-Aware Reciprocal Recommendations Using Siamese Bi-Directional Gated Recurrent Units Network. *Vietnam Journal of Computer Science*, 10(03), 273-301.
- Bisht, S., Taneja, S. B., Jindal, V., & Bedi, P. (2023). APSO based automated planning in Constructive Simulation. *Defence Science Journal*, 73(5), 564–571.
- Bedi, P., Jindal, V., & Dua, A. (2023). SPYIPv6: Locating Covert Data in One or a Combination of IPv6 Header Field(s). *IEEE Access*, 11, 103486-103501.
- Khurana, P., Gupta, B., Sharma, R., & Bedi, P. (2023). Session-aware recommender system using double deep reinforcement learning. *Journal of Intelligent Information Systems*, 62(2), 403-429.
- Bebortta, S., Pati, B., Panigrahi, C. R., & Senapati, D. (2024). Dynamic performance modeling framework for QoS-aware 5G-based IoT-edge systems. *International Journal of Information Technology*, 16(4), 2149-2160.
- Mukherjee, T., Bebortta, S., & Senapati, D. (2022). Stochastic modeling of q-Lognormal fading channels over Tsallis' entropy: Evaluation of channel capacity and higher order moments. *Digital Signal Processing*, 133, 103856.
- Bebortta, S., & Senapati, D. (2023). Toward Cost-Aware Computation Offloading in IoT-Based MEC Systems. *National Academy Science Letters*, 46(6), 531-534.
- Kumar, M., Patel, A. K., Biswas, M., & Shitharth, S. (2023). Attention-based bidirectional-long short-term memory for abnormal human activity detection. *Scientific Reports*, 13(1), 14442.
- Singh, R., Biswas, M., & Pal, M. (2023). A transformer-based cloud detection approach using Sentinel 2 imageries. *International Journal of Remote Sensing*, 44(10), 3194-3208.
- Shakya, A., Biswas, M., & Pal, M. (2023). Fusion and classification of SAR and optical data using multi-image color components with differential gradients. *Remote Sensing*, 15(1), 274.
- Gupta, O. P., Agrawal, A. P., & Pal, O. (2024). Masked facial recognition using ensemble convolutional neural network and grey-level co-occurrence matrix. *Indonesian Journal of Electrical Engineering and Computer Science*, 34(1), 302.
- Richa, Bedi, P., Gupta, S., & Kumar, R. (2024). Incorporation of Two-Fold Trust in Group Recommender System to Handle Popularity Bias. *SN Computer Science*, 5(2), 259.
- Gupta, N., Jindal, V., & Bedi, P. (2023). A Survey on Intrusion Detection and Prevention Systems. *SN Computer Science*, 4(5), 439.
- Bedi, P., Dua, A., & Jindal, V. (2023). FIHIM: a framework for information hiding in IPv6 using micro-protocols. *International Journal of Information Technology*, 1-20.

- Jain, K., Bhatnagar, V., & Kaur, S. (2023). Epidemic dynamics in census-calibrated modular contact network. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 12(1), 14.
- Kwatra, D., Rao, K. R., & Bhatnagar, V. (2023). Novel accessibility metrics based on hierarchical decomposition of transport networks. *Scientific Journal of Silesian University of Technology. Series Transport*, 118, 139-160.
- Lohani, D. C., & Rana, B. (2023). ADHD diagnosis using structural brain MRI and personal characteristic data with machine learning framework. *Psychiatry Research: Neuroimaging*, 334, 111689.
- Kumar, R., & Singh, K. (2023). High utility itemsets mining from transactional databases: a survey. *Applied Intelligence*, 53(22), 27655-27703.
- Singh, K., & Biswas, B. (2024). Mining Top-k High On-shelf Utility Itemsets Using Novel Threshold Raising Strategies. *ACM Transactions on Knowledge Discovery from Data*, 18(5), 1-23.
- Dwivedi, K., Rajpal, A., Rajpal, S., Agarwal, M., Kumar, V., & Kumar, N. (2023). An explainable AI-driven biomarker discovery framework for Non-Small Cell Lung Cancer classification. *Computers in Biology and Medicine*, 153, 106544.
- Kumar, S., Sharma, N. K., & Kumar, N. (2023). WSOmark: An adaptive dual-purpose color image watermarking using white shark optimizer and Levenberg–Marquardt BPNN. *Expert Systems with Applications*, 226, 120137.
- Bedi, P., Singhal, A., & Bhasin, V. (2023). Deep learning based active image steganalysis: a review. *International Journal of System Assurance Engineering and Management*, 15(3), 786-799.
- Gupta, S., & Singh, V. K. (2024). Distributional characteristics of Dimensions concepts: An Empirical Analysis using Zipf’s law. *Scientometrics*, 1-17.
- Sharma, D., Singh, A., & Singh, V. K. (2024). THAR-Targeted Hate Speech Against Religion: A high-quality Hindi-English code-mixed Dataset with the Application of Deep Learning Models for Automatic Detection. *ACM Transactions on Asian and Low-Resource Language Information Processing*.
- Shaikh, S., Kagita, V. R., Kumar, V., & Pujari, A. K. (2023). Data augmentation and refinement for recommender system: A semi-supervised approach using maximum margin matrix factorization. *Expert Systems with Applications*, 238, 121967.

Book/ Chapter in Books

Naveen Kumar and **Ankit Rajpal** co-authored five books with the following titles.

- “Computer Science with Python (Focus on Modularity & Documentation) for CBSE– Class 11”
- “Computer Science with Python (Focus on Documentation) for CBSE– Class 11”
- “Computer Science with Python (Focus on Modularity & Documentation) for CBSE– Class 12”
- Information Practices with Python for Class 11
- Information Practices with Python for Class 12
- Islam, R., & **Rana, B.** (2023). Machine learning approach for classification of stroke patients using clinical data. In *Computational Intelligence Aided Systems for Healthcare Domain* (pp. 119-138). CRC Press.

1. **Pal, O.**, Kumar, V., Khan, R., Alam, B., & Alam, M. (Eds.). (2023). *Cyber Security Using Modern Technologies: Artificial Intelligence, Blockchain and Quantum Cryptography*. CRC Press.
2. Das, A., Wu, Y., Pradeep, N., Ghonge, M. M., & **Pal, O.** (Eds.). (2023). *Unleashing the Potentials of Blockchain Technology for Healthcare Industries*. Elsevier.
3. **Pal, O.**, Kumar, V., Thakur, V., & Alam, B. Quantum Computing: A Global Scenario. In *Cyber Security Using Modern Technologies* (pp. 1-12). CRC Press.
4. Sharma, N. K., Kumar, S., **Rajpal, A.**, & **Kumar, N.** (2021, March). DWT and quantization based digital watermarking scheme using kernel OS-ELM. In *Virtual International Conference on Soft Computing, Optimization Theory and Applications* (pp. 313-328). Singapore: Springer Nature Singapore.
5. Kumar, V., Gupta, K., **Pal, O.**, Prakash, S., Kumar, P., Singh, S. V., ... & Tripathi, A. (2023). Effective Key Agreement Protocol for Large and Dynamic Groups Using Elliptic Curve Cryptography. In *Cyber Security Using Modern Technologies* (pp. 101-109). CRC Press.
6. Pathak, M., Sabharwal, Y., & **Gupta, N.** (2023, June). Scalable algorithms for compact spanners on real world graphs. In *Proceedings of the 37th International Conference on Supercomputing* (pp. 386-397).
7. Bebortta, S., & **Senapati, D.** (2023). Toward Cost-Aware Computation Offloading in IoT-Based MEC Systems. *National Academy Science Letters*, 46(6), 531-534.
8. Kumar, V., Gupta, K., **Pal, O.**, Kumar, R., Tiwari, P. K., Updhyay, N. K., & Bhardwaj, M. K. (2023). Computation and storage efficient key distribution protocol for secure multicast communication in centralized environments. In *Cyber security using modern technologies* (pp. 91-100). CRC Press.

Research Projects

- **Ankit Rajpal** has been sanctioned four lakhs for a faculty research project titled “Enhancing Interpretability in Leaf Disease Detection: Evaluating Segmentation Algorithms with LIME” by IoE, University of Delhi.
- **Bharti** has been sanctioned 15.90 lakhs for a major research project titled “Differential diagnosis of SCA1, 2, 3, 6 and 12 using structural MRI and resting state MRI” by IoE, University of Delhi.
- **Bharti** has been sanctioned 32.75 lakhs as a start-up grant titled “Artificial Intelligence Applications for Affordable and Accessible Healthcare for Differential Diagnostic of Psychiatric Disorders” by DST-SERB.
- **Om Pal** has been sanctioned four lakhs for a faculty research project titled “Development of Secure and Efficient Cyber Security protocols for Smart e-Healthcare Systems” by IoE, University of Delhi.
- **Vikas Kumar** has been sanctioned four lakhs for a faculty research project titled “RecExplain: A Transparent Recommender Systems through Explainable Latent Factor Model” by IoE, University of Delhi.
- **Vikas Kumar** has been sanctioned 27.45 lakhs for a project titled “Hybrid Deep Architecture for Semi-Supervised Recommender System” by DST-SERB.
- **Vikas Kumar** has been sanctioned 10 lakhs for a project titled “Latent Factor Transfer for Cross-Domain Recommendation” by UGC.

Seminar/Conference Presentations (National / International)

- **Ankit Rajpal**, 2024-01-31, "Contributed as a Judge in Round 2 Dark Patterns Buster Hackathon", held at Hansraj College, University of Delhi, organized by IIT-BHU and Govt. of India.
- **Ankit Rajpal**, 2023-11-23, delivered two sessions in a three-day Faculty development programme on "Python in Finance" organized by IQAC, Bharati College, University of Delhi
- **Ankit Rajpal**, 2023-11-03, Invited as a subject expert/jury member to evaluate research projects in Avlokan 2023, which was organized by the Centre of Research, Maitreyi College, University of Delhi
- **Ankit Rajpal**, 2023-08-22, delivered a 30-hour Add-on course on Fundamentals of Python organized by the Centre for Professional Development, Sri Guru Gobind College of Commerce, University of Delhi
- **Ankit Rajpal**, 2023-08-16, delivered a lecture at the Faculty Development Program on "MATLAB & its Applications in AI & ML", organized by Sridevi Suman Uttarakhand University, Rishikesh
- **Ankit Rajpal**, delivered a training programme on "Programming using Python: SQL connectivity using Python, Exception handling, Numpy and Visualization" during a three-day capacity-building programme for computer science teachers organized by the DAV Centre for Academic Excellence, DAV College Managing Committee
- **Ankit Rajpal**, 2023-03-22, delivered three sessions as a resource person in a two-week FDP Computer Algebra Systems organized by Mahatma Hansraj Faculty Development Centre, Hans Raj College, University of Delhi, in collaboration with IQAC, Ramjas College
- **Bharti**, 2023-08-27, "Data Fusion in Medical Imaging using Machine Learning", The 5th Annual Scientific Meeting of the Asian Society of Magnetic Resonance in Medicine: Quantitative MR Imaging & AI (ASMRM 2023), held from August 25 to 27, 2023 in Delhi, India held at AIIMS, Delhi
- **Bharti**, 2024-01-20, "Data Fusion in Medical Analysis", A workshop in a series of Enabling Technology Training (ETT) workshops under the aegis of DBT-funded Bioinformatics Center held on January 20, 2024, School of Computational and Integrative Sciences (SCIS), Jawaharlal Nehru University (JNU), New Delhi.
- **Bharti**, 2023-06-19, Multiple sessions, Four weeks summer training program on "Time series machine learning (TSML-2023)" from June 19th, 2023, to July 14th, 2023, Department of Computer Science and Information Technology, Mahatma Gandhi Central University, Bihar.
- **Bharti**, 2023-04-01, Two sessions on MATLAB, One Week (Online) Faculty Development Programme on "Computer Algebra Systems" during 22nd March – 3rd April 2023, Hansraj College in collaboration with Ramjas College, University of Delhi.
- **Dilip Senapati**, 2024-03-15, "Characterizing Extreme Price Fluctuations Using Non-Extensive Tsallis' Entropy Framework", Ancient and Modern Indian Mathematics, JNU, School of Computational and Integrative Science
- **Naveen Kumar**, 2023-05-02, delivered a training programme on "Introduction to Python Programming" during a three-day capacity-building programme for computer science teachers organized by the DAV Centre for Academic Excellence, DAV College Managing Committee
- **Om Pal**, 2024-03-14, "Post-Quantum Cryptography", IEEE International Conference on Automation and Computation (AutoCom-2024), Graphic Era Hill University, Dehradun, Uttarakhand, India, India held on 14th-16th-March 2024.
- **Om Pal**, 2024-03-20, "Quantum Computing", Invited Talk, RKGIT, Ghaziabad
- **Om Pal**, 2024-02-02, "Cybersecurity in Quantum Computing Era", Invited Talk, University of Delhi

- **Om Pal**, 2023-12-05, "Cybersecurity & Cyber Crime", organized by IQAC, Delhi College of Arts and Commerce, University of Delhi
- **Om Pal**, 2023-11-25, "Exploring the evaluation of cybersecurity threats", Invited Talk, St. Stephen's College, University of Delhi
- **Om Pal**, 2023-11-03, "Information Security- Cyber Society, Basic security Concepts, Major Online Risks and Threats", National Super Computing Mission of Govt of India, TIT, Agartala
- **Om Pal**, 2023-11-03, "Overview of Digital Signature, Cyber Security Products & Solutions Demo", National Super Computing Mission of Govt of India, TIT, Agartala
- **Om Pal**, 2023-09-15, "Cyber Security Workshop", Invited Talk, CSC, Academy, MeitY

Other Inter-Institutional Collaboration

AIIMS

IBM, IRL, Delhi

Missouri University of Science and Technology, USA

Northwestern University, USA

Placement Details : 94

Extension and Outreach Activities

Ankit Rajpal, 2023-09-29, delivered a talk in a three-week technical training programme: Attachment of DANICS Probationers (59th Batch) with Delhi Technological University organized by the Human Resource Development Centre (HRDC) in association with Directorate of Training (Union Territories Civil services), Govt. of NCT of Delhi

Naveen Kumar and **Ankit Rajpal**, 2023-06-18, delivered a Tutorial on "Explaining Machine Learning Decisions" at the International Conference on Neural Networks, Queensland, Australia

Bharti, 2024-01-21, "Machine Learning and Medical Data Analysis", explore CSR 2023-2024: Google Research Sponsored Mentorship Program from Jan 20-21, 2024, held at IIT, Roorkee

Dilip Senapati, 2024-01-13, "Characterizing Extreme Price Fluctuations Using Non-Extensive Tsallis' Entropy Framework", National Webinar, GIET University, Gunupur, Odisha.

Om Pal, 2024-01-07, "Preparation of Research Proposals for Funding Agencies", AICTE sponsored FDP, NIT Kurukshetra

Om Pal, 2023-09-18, "Cyber Security and preventive measures to deal with cyber-crime", FDP, BGSB University Rajouri, Jammu and Kashmir

Number of Ph.D. Degrees Awarded

Ph.D.: 5

Faculty Strength

13 (Thirteen) – (Senior Professor- 03, Professor – 02, Associate Professor – 03, Assistant Professor – 05)

ECA/ Sports

Ruchi Sinha CodeKaze2023 17-June-2023 Individual National Second Position Coding Ninjas
https://drive.google.com/file/d/1gi6aQNmEqDSzOUKXiSxny0UMoB9Jdb3R/view?usp=share_link

Rohit Kumar CodeKaze2024 18-June-2023 Individual National Third Position Coding Ninjas
https://drive.google.com/file/d/1HvTW_qfKNOkfnIAc5ncyeR9FnyPNpUQ2/view?usp=share_link

MATHEMATICS

Major Activities and Achievements

The Department of Mathematics at the University of Delhi was established in 1947, and ever since its inception, the department has always strived to be amongst the best mathematics departments in the country. The department currently offers M.Sc. and Ph.D. programs in Mathematics. The Department has received various supports and grants, including UGC's SAP-DRS, SAP-DSA, DST-FIST, DST-PURSE, NBHM and DAE, India. The Department of Mathematics QS World ranking 2024 is 251-300, and the subject-wise QS ranking 2024 within India is 10th. The faculty members of the department have Research Projects of approx. Rs. 132.55 Lacs and have published around 77 Research papers in journals of international repute. The department placement cell organized many webinars and workshops for students to develop skills. Approximately 31 companies like Axtia, Cognito, Courseleap, Saarthee, Collzy, etc, visited and selected 34 students, with the highest package offered in 2023-24 being 13.5 LPA.

Honours/Distinctions

Tarun Das

Visiting Professor in Mathematics at the University of Ladakh since 2022.

Member of the Screening and Selection Committee of CSIR for SRF and RA in Mathematical Sciences.

Honorary Treasure in the Indian Society for History of Mathematics since 2020.

Member of the Academic Council at the University of Allahabad.

Member of the Board of Studies in Mathematics at Kurukshetra University.

Member of the Board of Studies in Mathematics at the University of Ladakh.

Member of the Faculty Board at MDU, Rohtak.

C S Lalitha

Member (VC nominee) of Departmental Research Council, Department of Statistics, University of Delhi.

Member of the Board of Studies of the Department of Mathematics, Delhi Technological University.

Publications

- Nageshwar, R., Khan, A. G., & Das, T. (2023). Bi-asymptotic c-expansivity. *Journal of Mathematical Analysis and Applications*, 532(1), 127955.
- Khan, A. G., & Das, T. (2023). Topologically stable and persistent points of group actions. *Mathematica Scandinavica*, 129(1), 60-71.
- Das, T., Kumar, R. & Khan, A. G. (2023). Persistence and CW-topological stability for set valued maps. *Houston Journal of Mathematics*, 29, 369-380.
- Moar, A., Sharma, P. K., & Lalitha, C. S. (2024). Nonlinear scalarization in set optimization based on the concept of null set. *Journal of Global Optimization*.
- Das R, Kumar D, Salman M. (2024) Topological sensitivity and its stronger forms on semiflows. *Bulletin of the Korean Mathematical Society*, 61, 247-262.
- Salman, M., & Das, R. (2024). Dynamics of Multi-sensitive Non-autonomous Systems with Respect to a Vector. *Bulletin of the Malaysian Mathematical Sciences Society*, 47(2), 16pp.
- Mahajan, A., Thakur, R., & Das, R. (2024). Sensitivity and unpredictability in semiflows on topological spaces. *Communications in Nonlinear Science and Numerical Simulation*, 133, 107949.
- Arora, S., Chill, R., & Srivastava, S. (2023). Domination of semigroups on standard forms of von Neumann algebras. *Archiv der Mathematik*, 121(5-6), 715-729.
- Vashisht, L. K. (2023). On Hilbert-Schmidt Frames for Operators and Riesz Bases. *Journal of Mathematical Physics, Analysis, Geometry* (18129471), 19(4).
- Sinha, U. K., Vashisht, L. K., & Das, P. K. (2023). On matrix-valued Gabor frames over locally compact abelian groups. *Infinite Dimensional Analysis, Quantum Probability and Related Topics*, 26(04).
- Jindal, D., & Vashisht, L. K. (2024). Nonstationary matrix-valued multiresolution analysis from the extended affine group. *Analysis Mathematica*, 50(1), 189-213.
- Patel, A., Kumar, M., & Bagai, S. (2024). Heat and mass transfer under MHD mixed convection in a four-sided lid-driven square cavity. *Heat Transfer*, 53(3), 1220-1266.
- Kumar, V., & Patel, A. (2023). Dynamical behaviour of solitons and modulation instability analysis of a nonautonomous (1+1)-dimensional nonlinear Schrödinger equation. *Optik*, 293, 171412.
- Kumar, R., Singh, A., & Gaur, A. (2023). A note on maximal non- λ -rings. *Asian-European Journal of Mathematics*, 16(10).
- Mishra, P., Gupta, P., & Gaur, A. (2023). Construction of highly nonlinear permutations on \mathbb{Z}_{2^p} with differential uniformity at most 8. *Finite Fields and Their Applications*, 92, 102305.
- Singh, H. K. (2024). Fixed point sets and orbit spaces of wedge of three spheres. *Topology and its Applications*, 108856.
- Dimpi & Singh, H. K. (2024). Orbit spaces of free involutions on the product of three spheres. *Quaestiones Mathematicae*, 47(1), 1-26.
- Dhiman, S. K., & Kumar, S. (2024). Analyzing specific waves and various dynamics of multi-peakons in (3+1)-dimensional p-type equation using a newly created methodology. *Nonlinear Dynamics*, 112(12), 10277-10290.

- Niwas, M., Kumar, S., Rajput, R., & Chadha, D. (2024). Exploring localized waves and different dynamics of solitons in $(2 + 1)$ -dimensional Hirota bilinear equation: a multivariate generalized exponential rational integral function approach. *Nonlinear Dynamics*, 112(11), 9431-9444.
- Mann, N., Rani, S., Kumar, S., & Kumar, R. (2024). Novel closed-form analytical solutions and modulation instability spectrum induced by the Salerno equation describing nonlinear discrete electrical lattice via symbolic computation. *Mathematics and Computers in Simulation*, 219, 473-490.
- Kumar, S., & Mann, N. (2024). Dynamic study of qualitative analysis, traveling waves, solitons, bifurcation, quasiperiodic, and chaotic behavior of integrable kuralay equations. *Optical and Quantum Electronics*, 56(5), 1-24.
- Rani, S., Dhiman, S. K., & Kumar, S. (2024). Newly constructed closed-form soliton solutions, conservation laws and modulation instability for a $(2+1)$ -dimensional cubic nonlinear Schrödinger's equation using optimal system of Lie subalgebra. *Optical and Quantum Electronics*, 56(4), 1-32.
- Alshahrani, M., Ouahid, L., Abdou, M. A., Kumar, S., & Al Shahrani, J. S. (2024). New abundant analytical solutions of coupled nonlinear Schrödinger (FNSE) equation in fractal order arising in quantum mechanics. *Optical and Quantum Electronics*, 56(5).
- Kumar, S., & Dhiman, S. K. (2024). Exploring cone-shaped solitons, breather, and lump-forms solutions using the lie symmetry method and unified approach to a coupled breaking soliton model. *Physica Scripta*, 99(2), 025243.
- Kumar, S., & Niwas, M. (2023). Analyzing multi-peak and lump solutions of the variable-coefficient Boiti–Leon–Manna–Pempinelli equation: a comparative study of the Lie classical method and unified method with applications. *Nonlinear Dynamics*, 111(24), 22457-22475.
- Niwas, M., & Kumar, S. (2023). Multi-peakons, lumps, and other solitons solutions for the $(2+1)$ -dimensional generalized Benjamin–Ono equation: an inverse (G'/G) -expansion method and real-world applications. *Nonlinear Dynamics*, 111(24), 22499-22512.
- Kumar, S., & Mohan, B. (2023). A novel analysis of Cole–Hopf transformations in different dimensions, solitons, and rogue waves for a $(2 + 1)$ -dimensional shallow water wave equation of ion-acoustic waves in plasmas. *Physics of Fluids*, 35(12), 1-15.
- Kumar, S., Hamid, I., & Abdou, M. A. (2023). Dynamic frameworks of optical soliton solutions and soliton-like formations to Schrödinger–Hirota equation with parabolic law non-linearity using a highly efficient approach. *Optical and Quantum Electronics*, 55(14), 1-31.
- Niwas, M., Dhiman, S. K., & Kumar, S. (2023). Dynamical forms of various optical soliton solutions and other solitons for the new Schrödinger equation in optical fibers using two distinct efficient approaches. *Modern Physics Letters B*, 38(13), 1-17.
- Kumar, S., & Niwas, M. (2023). Exploring lump soliton solutions and wave interactions using new Inverse (G'/G) -expansion approach: applications to the $(2+1)$ -dimensional nonlinear Heisenberg ferromagnetic spin chain equation. *Nonlinear Dynamics*, 111(21), 20257-20273.
- Mohan, B., Kumar, S., & Kumar, R. (2023). Higher-order rogue waves and dispersive solitons of a novel P-type $(3+1)$ -D evolution equation in soliton theory and nonlinear waves. *Nonlinear Dynamics*, 111(21), 20275-20288.

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Kumar, S., Dhiman, S. K., & Chauhan, A. (2023). Analysis of Lie invariance, analytical solutions, conservation laws, and a variety of wave profiles for the (2+1)-dimensional Riemann wave model arising from ocean tsunamis and seismic sea waves. *The European Physical Journal Plus*, 138(7), 1-22.

Kumar, S., & Mohan, B. (2023). A direct symbolic computation of center-controlled rogue waves to a new Painlevé-integrable (3+1)-D generalized nonlinear evolution equation in plasmas. *Nonlinear Dynamics*, 111(17), 16395-16405.

Kumar, S., Ma, W., Dhiman, S. K., & Chauhan, A. (2023). Lie group analysis with the optimal system, generalized invariant solutions, and an enormous variety of different wave profiles for the higher-dimensional modified dispersive water wave system of equations. *The European Physical Journal Plus*, 138(5), 1-13.

Hamid, I., & Kumar, S. (2023). Symbolic computation and Novel solitons, traveling waves and soliton-like solutions for the highly nonlinear (2+1)-dimensional Schrödinger equation in the anomalous dispersion regime via newly proposed modified approach. *Optical and Quantum Electronics*, 55(9), 1-23.

Kumar, S., & Niwas, M. (2023). Optical soliton solutions and dynamical behaviours of Kudryashov's equation employing efficient integrating approach. *Pramana*, 97(3), 1-14.

Rani, S., Kumar, S., & Mann, N. (2023). On the dynamics of optical soliton solutions, modulation stability, and various wave structures of a (2+1)-dimensional complex modified Korteweg-de-Vries equation using two integration mathematical methods. *Optical and Quantum Electronics*, 55(8), 1-27.

Kumar, S., Hamid, I., & Abdou, M. A. (2023). Some specific optical wave solutions and combined other solutions to the advanced (3+1)-dimensional Schrödinger equation in nonlinear optical fibers. *Optical and Quantum Electronics*, 55(8), 1-30.

Kumar, S., & Mann, N. (2023). A variety of newly formed soliton solutions and patterns of dynamic waveforms for the generalized complex coupled Schrödinger–Boussinesq equations. *Optical and Quantum Electronics*, 55(8), 1-22.

Niwas, M., & Kumar, S. (2023). New plenteous soliton solutions and other form solutions for a generalized dispersive long-wave system employing two methodological approaches. *Optical and Quantum Electronics*, 55(7), 1-24.

Kumar, S., & Kumar, A. (2023). Newly generated optical wave solutions and dynamical behaviors of the highly nonlinear coupled Davey-Stewartson Fokas system in monomode optical fibers. *Optical and Quantum Electronics*, 55(6), 1-33.

Kumar, S., Mann, N., Kharbanda, H., & Inc, M. (2023). Dynamical behavior of analytical soliton solutions, bifurcation analysis, and quasi-periodic solution to the (2+1)-dimensional Konopelchenko–Dubrovsky (KD) system. *Analysis and Mathematical Physics*, 13(3), 1-30.

Kumar, S., & Niwas, M. (2023). Abundant soliton solutions and different dynamical behaviors of various waveforms to a new (3+1)-dimensional Schrödinger equation in optical fibers. *Optical and Quantum Electronics*, 55(6), 1-27.

- Alanazi, M. M., Ouahid, L., Al Shahrani, J. S., Abdou, M. A., & Kumar, S. (2023). Novel soliton solutions to the Atangana Baleanu (AB) fractional for ion sound and Langmuir waves (ISALWs) equations. *Optical and Quantum Electronics*, 55(5), 1-14.
- Rani, M., Sharma, A. K., Tiwari, S. K., & Panigrahi, A. (2023). Inverses of r-primitive k-normal elements over finite fields. *The Ramanujan Journal*, 63(3), 723-747.
- Rani, M., Sharma, A. K., Tiwari, S. K., & Panigrahi, A. (2023). On r-primitive k-normal elements with prescribed norm and trace over finite fields. *Finite Fields and Their Applications*, 91, 102253.
- Pal, S., Pal, S. K., & Panigrahi, A. (2023). Construction of S-boxes with LBN and $\text{DBN} \geq 4$. *Journal of Discrete Mathematical Sciences and Cryptography*, 26(6), 1665-1682.
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- Mavi, S., & Bishnoi, A. (2022). Abstract key polynomials and MacLane-Vaquié chains. *International Journal of Algebra and Computation*, 33(01), 15-30.
- Mavi, S., & Bishnoi, A. (2023). Mac lane–vaquié Chains And Valuation-transcendental Extensions. *Journal of Commutative Algebra*, 15(2), 249-259.
- Mavi, S., & Bishnoi, A. (2022). Abstract key polynomials and distinguished pairs. *Journal of Algebra and Its Applications*, 22(09), 19pp.
- Anand, S., Rai, P., & Kumar, S. (2024). Close-to-convex functions associated with a rational function. *Mathematica Slovaca*, 74(2), 339-354.
- Aasna, & Rai, P. (2024). Analysis of SDFEM for Singularly Perturbed Delay Differential Equation with Boundary Turning Point. *International Journal of Applied and Computational Mathematics*, 10(1), 20.
- Sharma, A., Rai, P., & Yadav, S. (2023). Uniformly Convergent Numerical Approximation for Parabolic Singularly Perturbed Delay Problems with Turning Points. *International Journal of Computational Methods*, 21(03), 42pp.
- Yadav, R. P., Rai, P., & Sharma, K. K. (2023). Finite element analysis of singularly perturbed problems with discontinuous diffusion. *Computational and Applied Mathematics*, 42(6), 25pp.
- Sharma, A., & Rai, P. (2023). Analysis of a higher order uniformly convergent method for singularly perturbed parabolic delay problems. *Applied Mathematics and Computation*, 448, 127906.
- Yadav, R. P., Rai, P., & Sharma, K. K. (2023). NIPG Finite Element Method for Convection-Dominated Diffusion Problems with Discontinuous Data. *International Journal of Computational Methods*, 20(05), 25pp.
- Rai, P., Çetinkaya, A., & Kumar, S. (2022). Starlike Functions Associated With Tanh-z and Bernardi Integral Operator. *Mathematical Foundations of Computing*, 6(3), 573–585.
- Sharma, A., Kumar, S., & Singh, H. P. (2023). Numerical solutions of fractional differential equation with multiple delays via block boundary value method. *International Journal of Dynamics and Control*, 12(3), 924-944.
- Kumar, S. (2022). Approximate controllability of time varying measure differential problem of second order with state-dependent delay and non-instantaneous impulse. *undefined*, 47, 190-205.

- Shah, S., Singh, R., & Jena, J. (2023). Interaction of Acceleration Wave with a Blast Wave in Two-Phase Chaplygin Flow Driven by Source Term. *Acta Applicandae Mathematicae*, 186(1), 1-13.
- Singh, R., Shah, S., & Jena, J. (2023). On kinematics of one-dimensional radially symmetric shocks in non-ideal reacting gases. *Mathematical Methods in the Applied Sciences*, 47(4), 1735-1749.
- Kumar Chaudhary, B., & Singh, R. (2023). Interaction of steepened wave with a strong shock in Van der Waals stiffened relaxing gases. *Journal of Applied Physics*, 134(16), 1-12.
- Sharma, D., & Singh, R. (2024). Evolution of characteristic shocks in two-phase modified Chaplygin flow consisting of source term. *Communications in Nonlinear Science and Numerical Simulation*, 131, 107891.
- Naz, A., Nagpal, S., & Ravichandran, V. (2023). Geometric Properties of Generalized Bessel Function Associated with the Exponential Function. *Mathematica Slovaca*, 73(6), 1459-1478.
- Kaur, G., & Nagpal, S. (2023). Partial sums and inclusion relations for starlike functions associated with an evolute of a nephroid curve. *Bulletin of the Korean Mathematical Society*, 60(6), 1477-1496.
- Kaur, G., & Nagpal, S. (2023). Radius problems for ratios of analytic functions involving sigmoid domain. *Asian-European Journal of Mathematics*, 17(01), 1-16.
- Kaur, G., & Nagpal, S. (2023). Radius of convexity of classes associated with the ratio of derivative functions. *Rendiconti del Circolo Matematico di Palermo Series 2*, 73(2), 587-601.
- Beniwal, S., & Kumar, A. (2022). Ternary rings of unbounded operators. *Banach Journal of Mathematical Analysis*, 17(1), 22pp.
- Kansal, A., Kumar, A., & Rajpal, V. (2023). Representations Of C^* -ternary Rings. *Communications of the Korean Mathematical Society*, 38(1), 123–135.
- Bansal, P., Kumar, A., & Bansal, A. (2023). Uncertainty inequalities for certain connected Lie groups. *Annals of Functional Analysis*, 14(3), 27pp.
- Kansal, A., & Kumar, A. (2023). Haagerup tensor product of C^* -ternary rings. *Journal of Mathematical Analysis and Applications*, 528(1), 127482.
- Priyanka, K., Trisandhya, P., & Kumar, A. (2023). Evaluating the Effect of Measurement Error Under Randomized Response Techniques of the Sensitive Variable in Successive Sampling. *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 93(4), 631-644.
- Kansal, A., & Kumar, A. (2023). Ideals in Haagerup tensor product of C^* -ternary rings and TROs. *Operators and Matrices*, (3), 731-748.

Research Projects

C. S. Lalitha has been sanctioned with four lakhs for a faculty research project titled “Scalarization and Optimality in Vector and Set Optimization” by IoE, University of Delhi.

Lalit Kumar has been sanctioned with three lakhs for a faculty research project titled “Application of Frames in Signal Processing” by IoE, University of Delhi.

Arvind Patel has been sanctioned with four lakhs for a faculty research project titled “Study of shock waves in gases under the effect of viscosity” by IoE, University of Delhi.

Atul Gaur has been sanctioned with three lakhs for a faculty research project titled “Maximal non- ϕ -Mori Extensions” by IoE, University of Delhi.

Ranjana Jain has been sanctioned with four lakhs for a faculty research project titled “Best Approximation and orthogonality for the vector-valued integrable functions” by IoE, University of Delhi.

Pratima Rai has been sanctioned with four lakhs for a faculty research project titled “Sharp bounds on coefficient functionals of Sakaguchi star like functions” by IoE, University of Delhi.

Surendra Kumar has been sanctioned four lakhs for a faculty research project titled “The solvability and controllability analysis of fractional stochastic differential equations with impulses” by IoE, University of Delhi.

Sumit Nagpal has been sanctioned 3.5 lakhs for a faculty research project titled “Geometric Properties of Analytic and Harmonic Univalent Mappings” by IoE, University of Delhi.

Sachi Srivastava has been sanctioned 31.78 lakhs for a project titled “Asymptotics of Solutions Linear and Non-linear Delay Differential Equations” by DST-SERB.

Atul Gaur has been sanctioned 17.97 lakhs for a project titled “On ϕ -rings” by DST-SERB.

Sachin Kumar has been sanctioned

1. four lakhs for a faculty research project titled “Symbolic computational work and potential mathematical analytical methods for solving various forms of nonlinear Schrödinger equations” by IoE, University of Delhi.
2. 20.70 lakhs for a project titled “Study of the dynamics of exact solutions for the non-linear evolution equations using Lie symmetry analysis” by DST-SERB.
3. 6.60 lakhs for a project titled “Lie Symmetry Analysis and Dynamics of Physical Phenomena for Nonlinear Evolution Equations” by DST-SERB.

Pratima Rai has been sanctioned 22 lakhs for a project titled “Development and Analysis of the finite element methods for a class of singular perturbation problems with discontinuous data” by DST-SERB.

Seminars Organized

Prof. Satish Verma, Prof. G. S. Tuteja, Prof. T. Venugopalan and Dr. Ravinder Kaur of SGTB Khalsa College, Zakir Husain College, SGTB Khalsa College and SGTB Khalsa College, University of Delhi, conducted Workshop on Typesetting Indian Languages using LaTeX, 23-03-2024

Prof. Riddhi Shah, Jawaharlal Nehru University, New Delhi, University of Delhi and IMW, on Celebrating Women in Mathematics, 01-06-2023

Seminar/Conference Presentations (National / International)

Tarun Das, 2024-03-13, "Glimpses of Poincaré recurrence and beyond" in Aryabhata Lecture Series at Central University of Punjab

Tarun Das, 2024-02-24, "Infiniteness of Primes and Recurrence in Systems", Invited to a talk at Jammu University

Tarun Das, 2024-02-07, "Let's feel Hyperbolicity and Recurrence", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science at Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi

Tarun Das, 2024-02-09, "More on recurrence via Toral Endomorphisms", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science, Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi

Tarun Das, 2023-12-08, "Devaney Chaos", Refresher Course in Mathematics at DDU, Gorakhpur

Tarun Das, 2023-05-04, "Hyperbolic Homoclinic classes and Chaotic Dynamical Systems", Plenary talk at 30th Annual Conference of Jammu Mathematical Society held at Jammu University

Tarun Das, 2023-04-15, "Poincaré recurrence phenomena and its impact on Dynamical Systems", Popular lecture, at Kurukshetra University

C S Lalitha, 2024-02-13, "Fundamental Theorem of Algebra: Optimization Approach", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science, Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.

C S Lalitha, 2024-01-23, "Convex Optimization", National Seminar on Recent Advancement of Mathematics, Ramanujan School of Mathematical Sciences, Pondicherry University.

C S Lalitha, 2023-10-30, "Optimization", UGC-Sponsored Online Refresher Course in Mathematics, Bharathidasan University, Khajamalai Campus, Tiruchirappalli, Tamil Nadu.

C S Lalitha, 2023-09-24, "Essential Stability in Set Optimization", International Conference on Variational Analysis and Optimization with Applications (ICVAOA-2023), Aligarh Muslim University.

C S Lalitha, 2023-04-14, "Constraint Qualifications in terms of Convexifiers", International Symposium on Optimization Theory and its Applications, The School of Mathematics of Thapar Institute of Engineering & Technology, Patiala, Punjab.

C S Lalitha, 2023-04-12, "Convex Optimization", Workshop on Optimization and Game Theory at St. Stephen's College, University of Delhi.

Atul Gaur, 2024-02-05, "Counting all finite reduced rings with n zero divisors", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science, Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.

Atul Gaur, 2024-02-08, "Certain ring extensions with examples through idealization of a module", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science, Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.

Ranjana Jain, 2024-03-28, "Centres of certain tensor products of Banach algebras", National Conference on Operator Theory and Function Spaces, Shiv Nadar University, UP.

Ranjana Jain, 2023-12-24, "Centres of certain tensor products of Banach algebras", 38th Annual Conference of Ramanujan Math. Soc. at IIT Guwahati, Assam

Sachin Kumar, 2024-02-17, "Application of the Bifurcation Theory, Chaotic Behavior, and Dynamics of Exact-soliton Solutions of a (2+1)-dimensional Konopelchenko-Dubrovsky (KD) Model", National

Workshop on Mathematical Modelling and Simulation, Department of Mathematics, Sri Guru Nanak Dev Khalsa College, University of Delhi

Sachin Kumar, 2024-02-08, "New excitation wave-patterns and analytical solutions to higher-order nonlinear partial differential equations", International Conference on Advances in Pure and Applied Mathematics (ICAPAM), Department of Mathematics, Shyam Lal College (University of Delhi), Delhi

Sachin Kumar, 2024-01-19, "Lie symmetry analysis and its applications in Nonlinear Sciences and Mathematical Physics", International Conference on Analysis and its Applications (ICAA-24), Department of Mathematics, Jamia Millia Islamia University, Delhi

Sachin Kumar, 2024-01-18, "Applications of various analytical methodologies to extract soliton-form solutions with distinct dynamics for the higher-order nonlinear partial differential equations", International Conference on Mathematical Sciences and Its Applications to Artificial Intelligence (ICMSAAI-24), SRM University, Delhi-NCR, Sonapat, Haryana

Sachin Kumar, 2023-12-27, "New Evolutionary Behaviours and Exact Invariant Solutions of the (3+1)-dimensional Nonlinear Evolution Equations", Expert talk in the Lecture Series in "Frontiers in Mathematics and Computation, Department of Applied Sciences, National Institute of Technology Delhi, Delhi

Sachin Kumar, 2023-12-22, "Exploring the soliton-form solutions and dynamic wave frames of the highly nonlinear evolution equations using various mathematical approaches via symbolic computation", 6th International Conference on Frontiers in Industrial and Applied Mathematics (FIAM-2023), BITS Pilani Dubai Campus, Dubai

Sachin Kumar, 2023-10-26, "Lie symmetries with generalized invariant solutions and dynamics structures and patterns of the (2+1)- and (3+1)- dimensional nonlinear evolution equations", International Conference on Symmetries of Differential & Difference Equations and Their Applications, Stellenbosch University, Cape-Town, South Africa

Sachin Kumar, 2023-05-25, "Dynamical analyses of various solutions and generalized invariant solutions for a (2+1)-dimensional modified dispersive water wave system of equations", DST-SERB Sponsored One week online National workshop on Mathematical Modelling with Simulation in Applied Sciences, Department of Mathematics, Central University of Haryana, India

Ratikanta Panda, 2024-02-06, "A Complex Rolle's Theorem", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science, Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.

Ratikanta Panda, 2024-02-08, "The Implicit function Theorem", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science, Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.

A. Zothansanga, 2023-10-28, "Generalized Analytic Signals Via Fractional Boas Transform", International Conference on Pure and Applied Mathematics (ICPAM-2023), Department of Mathematics, NIT Jalandhar & MNIT Jaipur.

Anuj Bishnoi, 2024-02-06, "Fermat's Last Theorem", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science, Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.

Anuj Bishnoi, 2024-02-07, "Algebraic Number Theory", Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science, Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi.

Pratima Rai, 2023-09-01, "A uniformly convergent Numerical method for parabolic singularly perturbed problems with large spatial delay", International Conference on Advancement of Mathematics, Thapar University, Patiala, Punjab.

Pratima Rai, 2024-01-01, "Uniformly convergent hybrid scheme for singularly perturbed delay problems with integral boundary condition", International Conference on Computational and Mathematical Modelling 2024 (online), Faculty of Mathematical Science, University of Colombo.

Pratima Rai, 2024-03-28, "Numerical approximation of singularly perturbed delay differential equations with integral boundary conditions", Workshop on International Mathematics and Pi Day, Department of Mathematics, South Asian University.

Sumit Nagpal, 2024-01-12, "Recent Advances in Univalent Harmonic Mappings", Conference on Mathematics and Applications, Mata Sundri College for Women, University of Delhi.

Other Inter-Institutional Collaboration :23

Students under Exchange Programme : 1

Placement Details : 34

Extension and Outreach Activities

Tarun Das served on selection committees that appointed permanent faculty (Professors / Associate Professors / Assistant Professors) in many Universities outside the University of Delhi domain.

Ruchi Das is a Member of the Committee constituted to formulate a plan for the re-employment of research-oriented academicians to promote and strengthen the research culture in universities and colleges.

Ruchi Das is a Subject Expert in Mathematical Sciences; Inspire Fellowship, DST, Ministry of Science and Technology, Government of India.

Ruchi Das is a Member of the Subject Expert Committee (SEC) on Physical & Mathematical Sciences under the Women Scientists Scheme-A (WOS-A), a flagship program of the Department of Science and Technology (DST).

Ruchi Das is a Member of the Subject Expert Committee (SEC) on Physical & Mathematical Sciences under the WISE-PDF program of the Department of Science and Technology (DST).

Ranjana Jain delivered an invited talk entitled "Some applications of non-negative matrices" on June 14, 2023, at Dyal Singh College, University of Delhi, on the occasion of the May 12 Initiative.

Ranjana Jain delivered an invited talk entitled "Real life applications of Mathematics" at Lakshmbai College, University of Delhi, April 12, 2023.

Sachin Kumar delivered an invited talk on “Basic Introduction to Mathematical Modeling: Bifurcation Theory, Chaotic Behavior and Soliton Solutions” in “Annual Mathematics Fest - Exponent'24” at the Department of Mathematics at Sri Venkateshwara College, University of Delhi on March 11, 2024.

Sachin Kumar delivered an invited talk on “Journey through Dynamical System: Bifurcation, Chaos, and Evolutionary Models” in “Annual Mathematics Fest – IMPLOSION'24” at the Department of Mathematics at Ram Lal Anand College, University of Delhi on February 29, 2024.

Social Outreach

A poster and Slogan Writing Contest was organized on the theme Freedom From CORRUPTION, TERRORISM, BLACK MONEY, and FILTH to celebrate Independence through pen and pencil on 4 August 2023.

A webinar entitled "Say No TO Corruption: Commit to Nation" was organized on 4 November 2023 to celebrate Vigilance Awareness Week from 30 October 2023 to 5 November.

Diwali Quiz, Mathematical Rangoli, and Diya Decoration, as Diwali celebrations were organized on November 9, 2023.

Mathematical Quiz, Sudoku, Crossword on Vedic Mathematics and Poster Presentation was organized to celebrate National Mathematics Day on December 22, 2023.

An invited talk entitled "Quadratic Forms and Ergodic Theory" by Prof Anish Gosh from Tata Institute of Fundamental Research (TIFR), Mumbai, was organized on December 22, 2023, on National Mathematics Day.

A Pi-themed art Exhibition, Mathematical Poetry competition, and rapid-fire competition were organized to celebrate Pi Day on 14th March 2024.

Number of Ph.D. Degrees Awarded

Ph.D. : 32

Faculty Strength

20 (Twenty) – (Senior Professor- 01, Professor – 04, Associate Professor – 04, Assistant Professor – 11)

ECA/ Sports

Gambheer Singh received Second Prize in the Best Paper Presentation Award at the International Symposium on "Applied Optimization and Game Theoretic Models for Decision Making" at ISI Delhi from January 17 to 19, 2024.

Prachi Gupta contributed a talk to Permutation-Based Crypto 2023 and presented a poster at CrossFyre 2023, which was colocated with EUROCRYPT-2023 and held at ENS Lyon, France, on April 23, 2023.

Kunal Ajay Oak broke several 5x5, 6x6 and 7x7 National and International Records of cubical events during April-23 to March-24.

Other Significant Information

Ruchi Das served as Head of the Department of Mathematics, Faculty of Mathematical Sciences, from April 2022 to March 2023.

Ruchi Das is the Chairperson of the DRC and the M.Phil. Committee at the Department of Mathematics, University of Delhi.

Member BRS, Faculty of Mathematical Sciences, University of Delhi.

Ruchi Das is a Member of the Academic Council at the University of Delhi.

Ruchi Das is a member of the Standing Committee on academic matters of the Academic Council, University of Delhi.

Ruchi Das is a member of the committee constituted by the Competent Authority for preparing the syllabus and books for the Indian Knowledge System (IKS), University of Delhi.

Ruchi Das is the coordinator of the NBHM Library Grant at the Department of Mathematics at the University of Delhi.

Tarun Das organized an online Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science on the theme “Algebra, Analysis and Applications” at the Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi, held during the 5-17 February 2024.

Sachi Srivastava organized the Annual Conference of Indian Women in Mathematics, which was held at IISER Bhopal from July 13 to 15, 2023.

Arvind Patel participated in Industrial Training data Sciences and Artificial Intelligence held at DUCC, Delhi University and Design Tech Systems Pvt. Ltd. from May 18-19, 2023,

Arvind Patel participated in Research Data Analysis using SPSS, held at DUCC Delhi University and SPSS South Asia from June 14 to 15, 2023.

Arvind Patel participated in Faculty Development Program on Cyber Security, High Performance Computing, AI/ML and GenAI held at DUCC University of Delhi and AWS during October 4-6, 2023.

Arvind Patel participated in a one-week faculty development program on Communication and Presentation skills in Classroom teaching held at DUCC, University of Delhi, Delhi 110007, from Dec. 18 to 22, 2023.

The department has prepared UGCF-2022 syllabi for 3rd year (5th & 6th Semester), which is passed by AC & EC.

The department received a Rs 10 lakh grant from the National Board of Higher Mathematics (NBHM), Department of Atomic Energy, India (DAE), to purchase books and periodicals.

Department organized a "Streamlines and Shocks for Infinity Laplacian Equations" talk by Prof. Lawrence C. Evans, University of California, Berkeley, USA, on March 15, 2024.

The department organized a "Differential Geometry and Lie Groups in Engineering" talk by Prof. Ravi N. Banavar, Systems and Control Engineering, IIT Bombay, on February 16, 2024.

The department organized a talk entitled "Algebras in which non units are products of idempotents" by Prof. Surender Kumar Jain, Distinguished Emeritus Professor, Ohio University USA, on February 9, 2024.

The department organized a talk entitled "Algorithms for Computationally Hard Graph Theoretic Problems" by Dr. Diptapriyo Majumdar, Department of Computer Science and Engineering, Indraprastha Institute of Information Technology, Delhi, on February 6, 2024.

The department organized a talk entitled "Estimate of Lp-Fourier transform norm for some Lie groups" by Prof. Ali Baklouti, Sfax University, Tunisia, on December 15, 2023.

OPERATIONAL RESEARCH

Major Activities and Achievements

Department faculty Members were actively involved in Formulating NEP UGCF 2022-based Operational Research Courses (Sem. I -Sem.VI).

Honours/Distinctions

Dr Shilpi Verma received the Research Publication Award Grant of Rs. 500000, jointly with Sr. Prof. Pankaj Gupta, Prof. Mukesh Kumar Mehlawat, and Ms Priya Sharma by IoE, University of Delhi.

Dr. Kaushal Kumar received Prof B G Raghavendra Best Thesis Award at the JOINT EVENT: 56th Annual Convention of ORSI (2023-ORSI) and 10th International Conference on Business Analytics and Intelligence (2023-ICBAI), scheduled during December 18-20, 2023, at J. N. Tata Auditorium, IISc, Bangalore 560012.

Dr. Kaushal Kumar was one of the finalists in the Best Thesis Competition, International Conference on Optimization and Data Science in Industrial Engineering, organized by Istinye University, Istanbul, Turkey, from November 16-17, 2023.

Prof. Chandra K. Jaggi received the Distinguished Educator Award in the field of Mathematics from the Operational Research Society of India on December 8, 2023.

Publications

Scopus

Irshad, M. S., Anand, A., & Roy, S. K. (2023). Dynamic programming approach to achieve higher view-count for YouTube videos. *International Journal of Operational Research*, 46(4), 437.

Kumar, K. (2023). Location Analysis of Primary Health Care Centers: A Case Study of Mohalla Clinics in Delhi. *Operations Research Forum*, 4(2).

Gupta, S., & Khaitan, V. (2023). End-to-end delay and backlog bound analysis for hybrid vehicular ad hoc network: a stochastic network calculus approach. *International Journal of Vehicle Information and Communication Systems*, 8(3), 191-216.

Gupta, S., & Khaitan, V. (2023). End-to-end delay and backlog bound analysis for hybrid vehicular ad hoc network: a stochastic network calculus approach. *International Journal of Vehicle Information and Communication Systems*, 8(3), 191–216.

Srivastava, P. W., & Rani, S. (2024). Predictive Maintenance Scheme For Phased Mission Systems. *Reliability: Theory & Applications*, 1(77), 675-687.

Aggarwal, S., Tandon, A., Jindal, V., & Aggarwal, A. G. (2023). Impact of Review, Reviewer and Hotel Characteristics on Ewom Helpfulness: An Empirical Study. *Journal of Information Technology Management*, 15(3), 31-46.

Mehta, P., Aggarwal, S., & Tandon, A. (2023). The Effect of Topic Modelling on Prediction of Criticality Levels of Software Vulnerabilities. *Informatica*, 47(6), 145–158.

Web of Science

Anand, A., Chanchal, Kapur, P. K., & Tamura, Y. (2023). Quantification of number of adopters: a study to showcase products-sold and products-in-use. *International Journal of System Assurance Engineering and Management*.

Irshad, M. S., Anand, A., & Ram, M. (2023). Trending or not? Predictive analysis for youtube videos. *International Journal of System Assurance Engineering and Management*, 15(4), 1568-1579.

Gupta, P., Anand, A., Tamura, Y., & Ram, M. (2023). Risk-based reliability assessment and testing stop time based software system modeling. *International Journal of Quality & Reliability Management*.

Gupta, A., & Khanna, A. (2023). A holistic approach to sustainable manufacturing: Rework, Green technology, and Carbon policies. *Expert Systems with Applications*, 244, 122943.

Yadav, S., Borkar, A., & Khanna, A. (2023). Sustainability enablers with price-based preservation technology and carbon reduction investment in an inventory system to regulate emissions. *Management of Environmental Quality: An International Journal*, 35(2), 402-426.

Yadav, S., Kumar Mangla, S., Priyamvada, P., Borkar, A., & Khanna, A. (2023). An energy-efficient model for PPE waste management in a closed-loop supply chain. *Business Strategy and the Environment*, 33(2), 1191-1207.

Khanna, A., Priyamvada, Yadav, S., & Jaggi, C. K. (2023). Strategic investment modelling for retail sector post COVID-19. *RAIRO Operations Research*, 57(5), 2735–2751.

Lalremruati, L., & Khanna, A. (2023). Analysing a lean manufacturing inventory system with price-sensitive demand and carbon control policies. *RAIRO - Operations Research*, 57(4), 1797-1820.

Sukhpal, & Kumar, K. (2023). Multi-trip multi-compartment vehicle routing problem with backhauls. *International Journal of System Assurance Engineering and Management*.

Kumar, A., & Kumar, K. (2023). A multi-objective optimization approach for designing a sustainable supply chain considering carbon emissions. *International Journal of System Assurance Engineering and Management*.

Kumar, A., & Kumar, K. (2024). An uncertain sustainable supply chain network design for regulating greenhouse gas emission and supply chain cost. *Cleaner Logistics and Supply Chain*, 10, 100142.

Singhania, S., Singh, J., Aggrawal, D., & Rana, S. (2023). Board gender diversity and sustainability reporting quality: a generalized ordered logit approach. *Kybernetes*.

Bansal, S., Garg, N., & Singh, J. (2023). Perpetrators' perspective on cyberbullying: a qualitative systematic review with bibliometric analysis. *Library Hi Tech*.

- Bibyan, R., Anand, S., Aggarwal, A. G., & Kaur, G. (2023). Testing coverage-based software modeling incorporating random effect with change point and its release. *Intelligent Decision Technologies*, 17(3), 839-851.
- Bibyan, R., Anand, S., Aggarwal, A. G., & Kaur, G. (2023). Multi-release software model based on testing coverage incorporating random effect (SDE). *MethodsX*, 10, 102076.
- Kausar, A., Hasan, A., Maheshwari, S., Gautam, P., & Jaggi, C. K. (2023). Sustainable production model with advertisement and market price dependent demand under salvage option for defectives. *Opsearch*, 61(1), 315-333.
- Maheshwari, S., Gautam, P., Kausar, A., & Jaggi, C. K. (2023). Optimal inventory replenishment policies for deteriorating items with preservation technology under the effect of advertisement and price reliant demand. *International Journal of Systems Science: Operations & Logistics*, 10(1), 2186753.
- Gautam, P., Maheshwari, S., Kausar, A., & Jaggi, C. K. (2023). Sustainable retail model with preservation technology investment to moderate deterioration with environmental deliberations. *Journal of Cleaner Production*, 390, 136128.
- Arora, R., & Jaggi, C. K. (2023). An aspect of bilevel interval linear fractional transportation problem with disparate flows: a fuzzy programming approach. *International Journal of System Assurance Engineering and Management*, 14(6), 2276-2288.
- Kausar, A., Hasan, A., & Jaggi, C. K. (2023). Sustainable inventory management for a closed-loop supply chain with learning effect and carbon emission under the multi-shipment policy. *International Journal of System Assurance Engineering and Management*, 14(5), 1738-1755.
- Ali, H., Nasreen, R., Arneja, N., & Jaggi, C. K. (2022). Optimization of a periodically assessing model with manageable lead time under SLC with back order rebate for deteriorating items. *International Journal of System Assurance Engineering and Management*, 14(1), 241-266.
- Maheshwari, S., Kausar, A., Hasan, A., & Jaggi, C. K. (2023). Sustainable inventory model for a three-layer supply chain using optimal waste management. *International Journal of System Assurance Engineering and Management*, 14(S1), 216-235.
- Khan, A. Z., Gupta, P., & Mehlawat, M. K. (2024). A Fuzzy Rule-based System for Portfolio Selection using Technical Analysis. *IEEE Transactions on Fuzzy Systems*, 1-15.
- Sharma, P., Mehlawat, M. K., Verma, S., & Gupta, P. (2023). Multi-attribute group decision-making in site selection of solar photovoltaic cells under triangular Pythagorean fuzzy environment. *Soft Computing*.
- Ahemad, F., Mehlawat, M. K., & Gupta, P. (2023). A GRA approach to a MAGDM problem with interval-valued q -rung orthopair fuzzy information. *Soft Computing*, 27(21), 15793-15815.
- Yadav, S., Kumar, A., Mehlawat, M. K., Gupta, P., & Charles, V. (2023). A multi-objective sustainable financial portfolio selection approach under an intuitionistic fuzzy framework. *Information Sciences*, 646, 119379.
- Ahemad, F., Khan, A. Z., Mehlawat, M. K., Gupta, P., & Roy, S. K. (2023). Multi-attribute group decision-making for solid waste management using interval-valued q -rung orthopair fuzzy COPRAS. *RAIRO - Operations Research*, 57(3), 1239-1265.

- Bisht, A., & Khaitan (nee Gupta), V. (2023). Reliability analysis of 5G-VANET using cloud-fog-edge based architecture. *RAIRO - Operations Research*, 58(1), 129-149.
- Kumar, A., Singh, O., Anand, A., & Kapur, P. K. (2024). Studying innovation adoption using different distribution functions. *International Journal of System Assurance Engineering and Management*, 1-8.
- Gupta, P., Yadav, A., Singh, O., Anand, A., & Kapur, P. K. (2024). An Approach to Studying Bugs Infusion-Based Modeling and Optimal Release Time for Open-Source Software. *International Journal of Reliability, Quality and Safety Engineering*.
- Singhal, S., Bano, Y., & Singh, O. (2024). Demand forecasting of technological products considering re-purchasing and dynamic pricing: a modified diffusion model. *International Journal of System Assurance Engineering and Management*, 1-18.
- Aggarwal, S., Aggarwal, A. G., & Tandon, A. (2023). Understanding online hotel popularity through empirical approach. *International Journal of System Assurance Engineering and Management*.
- Arora, R., Tandon, A., Aggarwal, A. G., & Mittal, R. (2023). Genetic algorithm-based price and warranty optimization in software systems. *Expert Systems*.
- Tandon, A., Aggarwal, A. G., & Aggarwal, S. (2023). Understanding the determinants of reviewer credibility: an interpretive structural modeling and artificial neural network approach. *Annals of Operations Research*.
- Bibyan, R., Anand, S., Aggarwal, A. G., & Tandon, A. (2023). Multi-release testing coverage-based SRGM considering error generation and change-point incorporating the random effect. *International Journal of System Assurance Engineering and Management*, 14(5), 1877-1887.
- Aakash, Tandon, A., & Gupta Aggarwal, A. (2023). Measuring online reviewer efficiency and ranking: A DEA based approach. *Journal of Quality Assurance in Hospitality & Tourism*, 24(2), 211–236.
- Neha, N., Tandon, A., Kaur, G., & Aggarwal, A. G. (2023). Synergic impact of development cost and slippage cost on software delivery time. *International Journal of System Assurance Engineering and Management*, 15(2), 745-757.

Book/ Chapter in Books

- Srivastava, P. W., & Agarwal, M. L. (2024). Masked Data Analyses of Reliability Systems Under Accelerated Life Testing. In *Frontiers of Performability Engineering: In Honor of Prof. KB Misra* (pp. 103-138). Singapore: Springer Nature Singapore.
- Kumar, K. (2023, May). Primary Health Care Facility Location and Telemedicine. In *Applications of Operational Research in Business and Industries: Proceedings of 54th Annual Conference of ORSI* (pp. 351-365). Singapore: Springer Nature Singapore.

Research Projects

- Abhishek Tandon** has been sanctioned four lakhs for a faculty research project titled “Applications of Soft Computing in Testing Coverage based Software Reliability Assessment” by IoE, University of Delhi.
- Adarsh Anand** has been sanctioned four lakhs for a faculty research project titled “Analyzing Various Marketing Phenomena based Innovation Adoption Modeling” by IoE, University of Delhi.

Aditi Khanna has been sanctioned four lakhs for a faculty research project titled “Investigating the Impact of Sustainable practices and Carbon regulations on Inventory systems” by IoE, University of Delhi.

Anu Gupta Aggarwal has been sanctioned 12.64 lakhs for a research project titled “Analyzing the awareness, perception and adoption of UPI (Unified Payment Interface) with focus on Tourism sector India” by Indian Council of Social Science Research

Chandra K Jaggi has been sanctioned four lakhs for a faculty research project titled “Optimization Model of the Closed-Loop Supply Chain for Inventory Management in Circular Economy” by IoE, University of Delhi.

Jagvinder Singh has been sanctioned four lakhs for a faculty research project titled “Perception of Women Directors towards Corporate Sustainability Practises in India” by IoE, University of Delhi.

Mukesh Kumar Mehlawat has been sanctioned:

- a) 12 lakhs for a faculty research project titled “Sustainable Transportation Systems in a Supply Chain” by Indian Council of Social Science Research.
- b) four lakhs for a faculty research project titled “Mult-Criteria Decision-Making Methods for Uncertain and Risky Real-world Problems” by IoE, University of Delhi.

Ompal Singh has been sanctioned four lakhs for a faculty research project titled “Applications of O.R” by IoE, University of Delhi.

Pankaj Gupta has been sanctioned four lakhs for a faculty research project titled “Multi-objective portfolio selection and performance evaluation under uncertainty” by IoE, University of Delhi.

Vandana Khaitan has been sanctioned four lakhs for a faculty research project titled “Performance and Dependability Analysis of Vehicular Networks in Intelligent Transportation Systems” by IoE, University of Delhi.

Seminars/Conferences organized by the Department

International Conference on Sustainable Supply Chain Management under India's G20 Presidency (SSCM-G20) in collaboration with the Association of Inventory Academicians and Practitioners (AIAP) on November 5, 2023.

Lecture session under Azadi ka Amrit Mahotsav on July 26, 2023.

Seminar/Conference Presentations (National / International)

Adarsh Anand, 2023-12-25, "Selection of Optimal YouTube View Count Prediction Model using Data Envelopment Analysis Approach", International Conference on “Statistics, Data Science and Reliability: Exploring Trends, Methods & Applications (IC-SDSRETMA-2023), MDU, Rohtak, Haryana.

Adarsh Anand, 2023-12-19, "Understanding Vulnerabilities and Software Patch Management", 6th International Conference on Recent Trends in Materials and Devices, ICRTMD 2023, jointly organized by Amity Institute of Applied Sciences & Amity Institute for Advanced Research and Studies (Material and Sciences)

Adarsh Anand, 2023-12-01, "Effective New Product Management using Design for Re-manufacturing", 6th International Conference on Mathematical Techniques in Engineering Applications (ICMTEA 2023), Graphic Era Deemed to be University, Dehradun

Aditi Khanna, 2023-12-25, "Exploring Sustainability and Economic Growth in a Production Inventory System, International Conference on "Statistics, Data Science and Reliability: Exploring Trends, Methods & Applications (IC-SDSRETMA-2023), MDU, Rohtak

Aditi Khanna, 2023-12-22, "Strategic modelling for a Sustainable Production Inventory System", International Symposium titled "Celebrating the Contributions of Ramanujan in Mathematics", Amity Institute of Applied Sciences

Aditi Khanna, 2023-04-29, "Sustainable production model with preservation technology investment and green packaging", International Conference on "Role of Sustainable Development Goals in Business and Economic Transformation" (ICS DG 2023), Jaipuria Institute of Management, Indirapuram, Ghaziabad, India

Aditi Khanna, 2023-04-29, "Sustainable Manufacturing System with Price-Sensitive Demand & Set-Up Cost Reduction", International Conference on "Role of Sustainable Development Goals in Business and Economic Transformation" (ICS DG 2023), Jaipuria Institute of Management, Indirapuram, Ghaziabad, India

Gurjeet Kaur, 2023-07-04, "Factors Influencing Adoption of UPI Payments by Indian Tourists: Extended UTAUT Model with Relative Advantage, Compatibility, Promotional Benefits, and Trust", 1st International Conference on Mathematical and Statistical Sciences (ICMSS-1), Namibia University of Science and Technology

Gurjeet Kaur, 2023-12-15, "Country of Origin Effect and Consumer Evaluation: A study of Offline and Online Decision Variables", 74th All India Commerce Conference 2023, Department of Commerce, University of Delhi

Jagvinder Singh, 2024-02-02, "Development and Validation of Corporate Sustainability Disclosure Scale", 11th International Conference on Governance, Responsibility and Sustainability: Challenges for New Generation Economies, Institute of Public Enterprises, Hyderabad

Jagvinder Singh, 2024-02-23, "Macroeconomic Perspectives in Banking Management: A Conceptual Framework", 3rd International Conference on Recent Trends in Engineering, Technology and Business Management (ICRTETBM 2024) (Theme: Digitization Transformation and Business Operations), Amity University, Noida

Kaushal Kumar, 2023-12-20, "A Mathematical Modelling Framework for Reinforcing Primary Care Delivery Through Capacity Management and Telemedicine", 56th Annual Convention of Operational Research Society of India (2023-ORSI) and 10th International Conference on Business Analytics and Intelligence (2023-ICBAI), Department of Management Studies, Indian Institute of Science (IISc), Bangalore and IIM, Bangalore

Kaushal Kumar, 2024-03-02, "A mathematical modelling approach for improving distribution and pick-up planning using multi- compartment vehicles", 25th Annual Conference of Vijnana Parishad of India (Society for Applications of Mathematics) & National Seminar on New Thrust Areas in Mathematical Sciences: Interdisciplinary Applications to Social Science, Commerce, Vedic Mathematics and

Computational Engineering (NTAMS 2024), Govt. Geetanjali Girls College (Autonomous) Bhopal-462038, Madhya Pradesh, India

Pankaj Gupta, 2024-01-19, "Sustainable financial portfolio selection, International Conference on Operations Research and Game Theoretic Approach in Decision Making", Indian Statistical Institute, Delhi Center

Vandana Khaitan, 2023-11-04, "Applications of Linear and Integer Programming", Workshop on "Optimization and Game Theory", Department of Mathematics, St. Stephen's College in collaboration with the Center for Economic Research

Vandana Khaitan, 2023-12-25, "Stochastic Processes and its Applications in Data Science", International Conference on "Statistics, Data Science and Reliability: Exploring Trends, Methods & Applications (IC-SDSRETMA-2023)", Department of Statistics, M.D. University, Rohtak (Haryana)

Placement Details : 96

Number of Ph.D. Degrees Awarded

Ph.D.: 11

Social Outreach

The Department organized a special lecture session under Azadi Ka Amrit Mahotsav on 26 July 2023.

Faculty Strength

17 (Seventeen) – (Senior Professor- 04, Professor – 04, Associate Professor – 06, Assistant Professor – 03)

Other Significant Information

Abhishek Tandon was nominated by the Hon'ble Vice Chancellor to attend a five-day course, "Nurturing Future Leadership Programme", from 11th -15th March 2024 at IIM Raipur.

Chandra K Jaggi is an Outside expert member of the UG Board of Studies in Statistics, Department of Statistics, M.D. University.

Chandra K Jaggi is serving as an External Expert DRC, Department of Mathematics, Madan Mohan Malaviya University of Technology, Gorakhpur, (U.P.).

Chandra K Jaggi served as an External Member of the School Board of the School of Basic Sciences, Central University of Haryana, Haryana.

Chandra K Jaggi assisted as an External Member of the Faculty of Mathematics and Computing, Banasthali Vidyapith, Banasthali, Rajasthan.

Gurjeet Kaur served as Executive Officer for Innovation and Incubation Activities of Udhmodya Foundation, University of Delhi.

Gurjeet Kaur served as a National Education Implementation and Monitoring Committee member at the University of Delhi.

STATISTICS

Major Activities and Achievements

The Department of Statistics is involved in carrying out research and teaching in diverse fields of Statistics. It has used the power of Statistics and knowledge of computers to contribute significantly in the area of research. The main thrust of the Department is to conduct basic and applied research and to develop trained manpower in the discipline of Statistics. The Department offers two degree-oriented programmes, namely M.A./M.Sc. and Ph.D. in Statistics with a curriculum that includes emerging and core areas in various fields of Statistics. The Department also organizes special invited talks by eminent persons from India and abroad. Distinguished Professors visited the department to deliver research talks and interact with faculty and students. The Department has achieved great success in the suitable placement of students in reputed national and international companies/organizations.

Publications

Scopus

- Pandey, R., Chand, D. B., & Tolani, H. (2024). Bayesian multiple linear regression model for GDP in India. *International Journal of System Assurance Engineering and Management*, 1-18.
- Singh, P., & Shukla, H. (2023). Uniform mixture designs using designs in 2-dimensional spherical region. *International Journal of System Assurance Engineering and Management*, 14(5), 1888–1897.
- Tyagi, S., Agiwal, V., Kumar, S., & Chesneau, C. (2023). Theory and practice of a bivariate trigonometric Burr XII distribution. *Afrika Matematika*, 34(3), 49.
- Pathak, A., Kumar, M., Singh, S. K., & Singh, U. (2023). Topp–Leone Poisson Exponential Distribution: A Classical and Bayesian Approach. *Journal of the Indian Society for Probability and Statistics*, 24(2), 393-417.
- Pathak, A., Kumar, M., Singh, S. K., Singh, U., & Kumar, S. (2024). Bayesian estimation of the number of species from Poisson-Lindley stochastic abundance model using non-informative priors. *Computational Statistics*, 1-24.
- S., Nassar, M., Ali, S., Kumar, D., & Raheem, E. (2024). *Comparison of estimation methods of the power generalized Weibull distribution*, 339–372.
- Kumar, S., Pathak, A., Kumar, M., & Singh, S. K. (2024). Bayesian estimation: Number of species from Poisson mixed exponential-gamma distribution using objective priors. *Journal of Statistics and Management Systems*, 27(3), 703-720.
- Saha, M., Devi, A., Yadav, A. S., & Maiti, S. S. (2024). Evaluation of a novel loss-based process capacity index S'_{pk} and its applications. *International Journal of System Assurance Engineering and Management*, 1-24.
- Saha, M., Pareek, P., Tripathi, H., & Devi, A. (2024). Time truncated attribute control chart for the generalized Rayleigh distributed quality characteristics and beyond. *International Journal of Quality & Reliability Management*, 41(5), 1400-1416.

UGC Care-listed Journal

Pandey, R., & Chand, D. B. (2023). Modelling and Forecasting the Gross Domestic Product of the Nepal Using Autoregressive Integrated Moving Average Models. *International Journal of Statistics and Reliability Engineering*, 10(2), 456-465.

Singh, P., & Sharma, R. (2023). Construction of Complete Diallel Crossing System using Latin Square Designs. *International Journal of Statistics and Reliability Engineering*, 3(10), 597-602.

Singh, P., Mazumder, M. D. & Babu, S (2023). Nearly Orthogonal Arrays Mappable into Symmetric Orthogonal Arrays of Strength Two. *Turkish Journal of Computer and Mathematics Education*, 8(17), 621-638.

Chandra, G., Tamta, B. P., Mohanty, M., Pandey, A. P., & Latpate, R. (2023). Population and production of seed of *Buchanania lanzan* Spreng in dhenkanal forest division of odisha, India. *Indian Forester*, 149(11), 1133.

Journal papers indexed in Web of Science

Pandey, R., Chand, D. B., & Tolani, H. (2023). Bayesian multiple linear regression model for gross domestic product in Bhutan. *Advances and Applications in Statistics*, 87(2), 161–190.

Singh, P., & Sharma, R (2023). Construction of Partial Diallel Crossing System using Latin Square Designs. *International Journal of Agricultural and Statistical Sciences*, 19(2), 851-858.

Singh, P., & Kumar, N. (2023). Orthogonal Latin Hypercube designs for Eight Factors. *International Journal of Agricultural and Statistical Sciences*, 19(1), 427.

Kumar, S., Pathak, A., Kumar, M., Singh, S. K., & Gupta, R. (2023). Bayesian Inference for Functional Response of Stochastic Predator-Prey Model using Non-Informative Prior. *International Journal Of Agricultural And Statistical Sciences*, 19(02), 891-898.

Book/ Chapter in Books

Anjoy, P., Kumar, K., Chandra, G., & Gaikwad, K. (Eds.). (2024). *Genomics Data Analysis for Crop Improvement*. Springer.

Malakar, A., Chandra, G., & Barthwal, S. (2024). Tree Genome Databases: A New Era in the Development of Cyber-Infrastructures for Forest Trees. In *Genomics Data Analysis for Crop Improvement* (pp. 285-308). Singapore: Springer Nature Singapore.

Sharma, D. (2023). Search algorithm to find the maximum likelihood estimator for quantile-based distributions in Das, D. and Mahanta, K. K., (eds.), *Current research in Statistics and allied Sciences*, Department of Statistics, Dibrugarh University, Assam, India, 176–179

Research Projects

Ranjita Pandey has been sanctioned four lakhs for a faculty research project by IoE, University of Delhi.

Seminars/Conferences organized

First annual Seminar on Statistical Methods and Applications in Interdisciplinary Areas (SMAIA) In the memory of Late Prof. A. K. Bansal on March 9, 2024

Seminar/Conference Presentations (National / International)

Devendra Kumar, 2024-03-18, Faculty Induction Programme, Malaviya Mission Teacher Training Centre at Central University of Haryana

Devendra Kumar, 2024-03-11, "Research and Documentation for Faculty Members of CSWB", Workshop on Research and Documentation for Faculty Members of CSWB, National Institute of Public Cooperation & Child Development (NIPCCD), New Delhi

Devendra Kumar, 2024-02-28, LaTeX, Three Days Online Workshop, Department of Statistics, Panjab University, Chandigarh

Devendra Kumar, 2023-12-15, "Statistics for Twenty First Century 2023", Ninth International Conference on "Statistics for Twenty First Century 2023, Department of Statistics, University of Kerala, Trivandrum

Devendra Kumar, 2023-11-07, "Recent Trend in Statistics", National Seminar on Recent Trend in Statistics, Department of Statistics St. Anthony's College Shillong, Meghalaya

Devendra Kumar, 2023-10-28, IX International Symposium on Statistics and Optimization, Department of Statistics and Operations Research

Devendra Kumar, 2023-10-18, "Research Methodology and Statistical Analysis for academicians", Orientation Programme on Research Methodology and Statistical Analysis for academicians, National Institute of Public Cooperation and child Development, Delhi

Dreamlee Sharma, 2024-02-06, "An Inverse Generalized Distribution: Modeling, Estimation, and Comparative Analysis with Real-World Data", International Conference on Recent Advances of Probability and Statistics in Interdisciplinary Research (RAPSIR), Department of Statistics, Faculty of Science, University of Allahabad, Prayagraj, India Jointly Organized with Indian Society for Probability and Statistics (ISPS)

Dreamlee Sharma, 2023-08-21, "Hypotheses Testing and Regression" in a Refresher Course on Data Analytics and Machine Learning, St. Xavier's University, Kolkata

Girish Chandra, 2024-02-06, Ranked Set Sampling for Impact Valuation, International Conference on Recent Advances in Probability and Statistics in Interdisciplinary Areas, ISPS and University of Allahabad

Mahendra Saha, 2023-11-20, "Statistical Quality Control", UGC-Human Resource Development Centre, Lucknow University

Manoj Kumar, 2024-01-17, "Statistical Inference for the Number of Species Using Poisson Lindley Model", International Conference on Mathematical Sciences and Its Application Intelligence (ICMSAAI-24), SRM University NCR, Sonapat, Haryana-131029

Manoj Kumar, 2023-09-01, "Assessing the effect of E-Bayesian Inference for Topp-Leone distribution under lower record values", International Conference on Statistical Theory and its Applications (ISTA-2023), Department of Statistics, Bharathiar University, Coimbatore, Tamil Nadu.

Manoj Kumar, 2024-02-21, a session in International Day of Women in Statistics and Data Science (IDWSDS-2023), Columbus, OH, 43216-0561

Ranjita Pandey, 2024-03-18, "Role of statistics in Emerging India@2047:A Multidisciplinary Approach", one day National Seminar, Department of Statistics, Central University of Odisha

Ranjita Pandey, 2023-02-23, "Small and large sample tests", three-day Training programme, Department of Statistics, M.D University

Ranjita Pandey, 2023-10-28, "Bayesian Spatio-Temporal Modelling: A discrete Event Approach", IX International Symposium on Statistics and Optimization, Department of Statistics and Operation Research, Aligarh Muslim University.

Ranjita Pandey, 2023-12-04, "Structural Equation Modelling and Multidimensional Scaling", Department of Psychology, School of Social Sciences, IGNOU

Ranjita Pandey, 2023-07-01, "Action Research Correlation, Regression and Introduction to Factor Analysis", four-day Faculty Development Programme, Apeejay Styra University

Suman, 2024-02-06, "Cardiovascular failure: A Biostatistical Analysis Prediction Study", International Conference on Recent Advances of Probability and Statistics in Interdisciplinary Research-2024, University of Allahabad

Placement Details: 52

Extension and Outreach Activities

UDAAN- The Socio-Cultural Cell organized

National Statistics Day on 28-06-2023

Teachers Day held on 05-09-2023

Saraswati puja on 14-02-2024

Cloth collection drive from 21-02-2024 to 23-02-2024

Blood donation drive 2024, on 02-04-2024

The Heritage Club organized

International Mother Language Day held on February 21, 2024.

Sports Day on December 9, 2023.

Rangoli making event on November 11, 2023, on Deepawali.

National Statistics Day on June 29, 2023.

International Yoga Day Celebration on June 21, 2023.

Shirt Scribble Day on May 26, 2023.

Number of Ph.D./ M.Phil. Degrees Awarded

Ph.D. : 5

M.Phil. : 1

Faculty Strength

10 (Ten) – (Sr. Professor- 01, Professor – 01, Associate Professor – 03, Assistant Professor – 05)

Other Significant Information

In 2023-24, 52 (to date) students got placed through the Placement Cell. The Department has two well-equipped, fully computerized laboratories with the latest computing facilities for the students and researchers.

FACULTY OF MEDICAL SCIENCES
ANAESTHESIOLOGY & CRITICAL CARE (UCMS)

Major Activities and Achievements

The department has 32 publications in various national and international journals in the last one year. The Advanced Skill lab of the GTB hospital is under the Department of Anaesthesiology and has been regularly organizing various workshops of basic and advanced life support skills for students as well as other health support staff. The faculty members are invited as subject experts during various academic conferences at national and international forums. Many of them are also reviewers, editors and members of editorial board of several national and international journals.

Honours/Distinctions

Dr. Asha Tyagi was awarded the Fellowship of Indian College of Anaesthesiologists (FICA) for “mastering the art and science of Anaesthesiology and pioneering advancement of the speciality” at the 4th International and 14th National conference of the Indian college of Anaesthesiologists; Bengaluru; 3rd-4th November 2023.

Dr. Ashok Kumar Saxena was awarded ‘ISA Ratna’ by ISA National on 25th November 2023

Publications

Chilkoti, G. T., Bhandari, P., Mohta, M., Saxena, A. K., & Kapoor, R. (2023) Comparison of the Efficacy of Macintosh Laryngoscope Versus Airtraq Videolaryngoscope for Visualization of Laryngeal Structures at the End of Thyroidectomy: A Randomized Control Study. *Indian journal of otolaryngology and head and neck surgery*, 75 (4), 3191-3198

Chilkoti, G. T., Mohta, M., Siddiqui, S., & Banerjee, A (2023) Glycopyrrolate for organophosphosphate poisoning: What is its stand? - A case study and literature review. *Indian journal of anaesthesia* 67 (7), 662-663

Gaur D., Chilkoti, G.T., Ahmad, Z., Dua, S., Gaur, N., Kanwar, N., Saxena, A.K. (2023) Anesthetic concerns during rigid bronchoscopy for the management of a friable vegetative foreign body in infant. *J Indian Coll Anesth* 2, 56-8

Kapoor, R., Dua, S., & Saxena, A. (2024) Assessment of Quality of Pain and Patient Satisfaction using ASSIST Questionnaire Following Intraperitoneal Instillation of Ropivacaine Compared with the Addition of Adjuncts Ketamine versus Dexmedetomidine in Laparoscopic Cholecystectomy patients. *Journal of Anaesthesia and Pain* 5 (1)

Mohta, M., Kumari, S., Malhotra, R. K., Tyagi, A., & Agarwal, R. (2023) Calculation of effective dose of phenylephrine bolus for treatment of post-spinal hypotension in pre-eclamptic patients undergoing caesarean section - a non-randomised controlled trial. *International journal of obstetric anaesthesia* 56, 103929

Rautela, R. S., Gulabani, M., Kumar, P., Salhotra, R., Mohta, M., & Verma, K. (2023) Comparative assessment of dexmedetomidine and butorphanol for attenuation of etomidate-induced myoclonus: A double-blind, randomized controlled study. *Indian Journal of Anaesthesia* 67 (9), 815-820

Khurana, B. J. K., Choudhary, S., Singhal, M., Rautela, R. S., Salhotra, R., Singh, A., & Meena, S (2023) Comparison of Intrathecal Chloroprocaine With Bupivacaine in Short Gynecological Procedures: A Randomized Double-Blind Study. *Cureus* 15 (8) e44187.

Salhotra, R., Tyagi, A., Minz, E. E., Chaudhary, P., Singh, D., & Toppo, V. (2023) COVID-19 Vaccination Among Healthcare Workers: Trend and Protection in a Tertiary Care Hospital in Northern India. *Cureus* 15 (3) e35777

Bharti, S., Chaudhary, S., Salhotra, R., & Meena, S. (2023) Comparison of face-to-face tracheal intubation and conventional head-end tracheal intubation using Airtraq video-laryngoscope in adults - A randomized study. *Journal of anaesthesiology, clinical pharmacology* 39 (4) 609-615

Salhotra, R., Thakkar, K., Rautela, R.S., Chauhan, J., & Ajeeb, S. (2024) Comparison of insertion characteristics of LMA ProSeal from the front and head-end of the patient: A randomized pilot study. *J Anaesthesiol Clin Pharmacol* 40, 95-100

Das, S., Saxena, A.K., Chilkoti, G.T., Goel, S., Banerjee, B.D. (2023) A randomized comparative study of the modulation of genetic expression of TIMP-1 and ERK in patients with post-herpetic neuralgia. *Int. Journal of Medical and Pharmaceutical Research* 4 (2) 235-41

Tyagi, A., Nigam, C., Malhotra, R. K., Bodh, P., Deep, S., & Singla, A. (2024) The minimum effective dose (ED90) of prophylactic oxytocin infusion during cesarean delivery in patients with and without obesity: an up-down sequential allocation dose-response study. *International journal of obstetric anesthesia* 57, 103962

Tyagi, A., Nigam, C., Pangtey, R., & Agrawal, V. (2023) Severe unprovoked hypertrophic obstructive cardiomyopathy: anaesthetic concerns in patient undergoing parathyroidectomy. *BMJ case reports* 16 (9) e254641

Tyagi, S., Tyagi, A., Rashmi, S., Mohta, M., & Gupta, B. (2023) Weight-based oxytocin infusion for preventing uterine atony during caesarean delivery in non-labouring patients: A dose-response study. *Clinical and experimental pharmacology & physiology* 50 (6), 497-503

Gupta, S., Yadav, I., Saxena, A. et al (2023) Comparison of clinical efficacy of hyperbaric ropivacaine with hyperbaric bupivacaine in spinal anaesthesia for transurethral resection of prostate: A randomized and double-blind study. *Asian Journal of Medical Science* 15 (2)

Research Projects

IMRG-MRU, Dr Michell Gulabani, " Comparison of three different doses of dexmedetomidine for attenuation of the pressor response to laryngoscopy and intubation by assessment of haemodynamic parameters and plasma catecholamine levels under Bi- Spectral index guided anaesthesia- A prospective randomized controlled study" , 2 Lakhs.

Seminars Organized

Dr. Rashmi Salhotra, Professor Deptt of Anaesthesiology & Critical Care, 2nd Annual Medical Conference of UCMS, Medicamentum , Airway workshop for undergraduates, 31-10-2023

Dr. Rashmi Salhotra, Professor Deptt of Anaesthesiology & Critical Care, 2nd Annual Medical Conference of UCMS, Medicamentum , “BCLS workshop” for Undergraduates, 30-05-2024

Dr. Rashmi Salhotra, Professor Deptt of Anaesthesiology & Critical Care, Nil, COLS sessions for lay persons visiting GTBH in October 2023 , 21-10-2023

Conferences Organized

"Rising Antimicrobial Resistance & its Current Management", 02-05-2023.

Seminar/Conference Presentations

Dr Medha Mohta - Invited lecture on “Spinal hypotension – The holy grail” at XVIth Annual National Conference of the Association of Obstetric Anesthesiologists on September 22nd to 24th, 2023 at B J Medical College & Civil Hospital, Ahmedabad

Dr. Asha Tyagi - The science of study designs. In: Cracking the quagmire of protocol development; Organised by NIHFWS and The Biostatistics Consortium, Delhi; 16th March, 2024. Dr. Geetanjali T Chilkoti - Faculty/Instructor at BCLS workshop in Medicamentum 2023 (2nd Annual Medical Conference) by UCMS on 30th October 2023

Dr. Rashmi Salhotra - Invited faculty to Train the Trainer “Primer on Trauma” program in “Medical Robotics Centre” at IIIT Delhi, Okhla on 22nd September 2023.

Dr. Michell Gulabani was invited as faculty to participate in a debate at YUVACON April 2023 organized by Delhi ISA at Dr RML Hospital, New Delhi.

Dr. Ashok K Saxena o Delivered a CME lecture on Chronic neuropathic Pain during ISACON 2023 , held at Gurugram on 22-26 November. 2023

Dr. Vibhor Gupta received BCLS Instructor certificate by IRCF in 2023.

Dr. Mohd Shakir - Invited as faculty for ISACON (Delhi) 2023 on 1st to 3rd September 2023 organized at Dr. RML Hospital, New Delhi.

Dr. Punnet Chugh -Faculty in 12th Seed workshop by Airway Management Foundation at GMC Chandigarh on 13th April 2024

Extension and Outreach Activities

A number of training sessions were organized and conducted with the help of all department faculty members for training of MBBS students, interns, Junior and Senior residents working in UCMS and GTBH complex. The activities by Advanced Skill lab are as follows:basic and advanced cardiovascular life support, oxygen therapy, airway management etc.

COLS sessions were organized for lay persons visiting GTBH in October 2023

BCLS training session was organized as a part of 5th Foundation Training Programme (FTP) for the General Duty Medical Officers (GDMOs) under Central Health Services (CHS) on 5th December 2023

Dr Vibhor Gupta has received appreciation and awards for his outreach activities that include

- Chikitasak Sewasamman award by IMA in 2024
- Appreciation award by DMA and IMA on Doctors day in July 23

Faculty Strength

Senior Professor/Professor/Director:	07
Associate Professor:	02
Assistant Professor:	06

ANATOMY (MAMC)

Major Activities and Achievements

The Department of Anatomy is a centralized facility for embalming under Delhi Government. The Department is also a recognized center for voluntary body donation. Department has a modern molecular and cytogenetics laboratory where research projects are under progress. The Department is Institutional center for Fetal Autopsy.

Honours/Distinctions

Dr Pankaj Rathi attended the 4th Asian and African Stereology Congress from 13-15 Nov 2023 Held at Tanzania and received an award for Best oral presentation titled 'Determination of volume of nephogenic zone and its correlation with total kidney volume using stereology' which was coauthored by Dr Sabita Mishra and Dr Surbhi Wadhwa.

Publications

Scopus

Shekhawat, D., Kumar, D., Tubbs, R.S. (2023) Bilateral Sternalis Muscle With the Absence of Unilateral Sternocostal Part of the Pectoralis Major and Variation of Pectoralis Minor Muscles. *Cureus*. 15(7), e41653

Mangla, N., Wadhwa, S., Mishra, S., Sural, S., Vasudeva, N. (2023) Cadaveric Study of Variations in the Course of Lateral Femoral Cutaneous Nerve: Insight to Prevent Injury. , *Medeniyet Medical Journal* 3, 172-179

Parveen, N., Singh, S., Mishra, S. (2023), Foramen venosum: a clinicoanatomic insight into its occurrence and morphometry. *Surg Radiol Anat*. 45 (4), 409-415

Yadav, I., Singh, S., Mahajan, A., Mishra, S, (2023) Case of bilateral aberrant testicular arteries: A clinicoembryological elucidation , *International Journal of Scientific Research*, 12, 8

Honey, Z., Sushma, T., Aggarwal, N., Verma, N., Syed, R. et al. (2024) Sanger Sequencing of Exon 14 of RB1 Gene Among North Indian Children with Retinoblastoma. *International Journal of Anatomy and Research* 12 (1), 8862-70

Rani, A., Verma, R., Arvind, P., Aggarwal, N., Diwan, R.K., Sehgal, G. (2023) Heel Pain and Calcaneal Enthesophytes: A Radiological Evaluation., *Int J Anat Res* 2023, 11(3):8670-76

Aggarwal Nikhil, Sehgal Garima, Dande Kaweri, Manik Punita.(Sep 2023) , Missing common Hepatic Artery and variant Right Hepatic Artery: An incidental finding on CT imaging , *International Journal of*

Anatomy and Research 11(3):8659-62

Arya, A., Tomar, S., Aggarwal, N., Kumar, S., Pandey, A., Manik, P., & Diwan, R. K. (2023). Ultrasonographic Assessment of Ovarian Volume: A Cross-sectional Study to Evaluate Ovarian Reserve and Its Impact on Reproductive Potential. *Journal of Clinical and Diagnostic Research*, 17(9), 01–05

Chakraborty, A., Porwal, K., Raman, S. et al. (2024) Superparamagnetic Iron Oxide Nanoparticle Implantation and Magnetic Field Exposure Modulate Bone Microarchitecture Following Spinal Cord Injury in Adult Male Rats *Annals of Neurosciences*

Kumar, S., Raman, S., Sesham, K., Gupta, A., Yadav, R.K., Mridha, A.R., Yadav, S.C. (2024) Visual, rapid, and cost-effective BK virus detection system for renal transplanted patients using gold nanoparticle coupled loop-mediated isothermal amplification (nanoLAMP). *J Virol Methods* 325, 114889.

Research Projects

ICMR, Dr Sabita Mishra, Development of the blood nerve barrier of the human cochlear nerve funded by the ICMR, 13,35,168

Govt of NCT of Delhi under the plan scheme “Strengthening of Medical Research at MAMC”., Dr Swati Tiwari, Expression of Pax 3 in human neural tube defects,, 1,40,000

Govt of NCT of Delhi under the plan scheme “Strengthening of Medical Research at MAMC”., Dr Anita Mahajan, Plastination of brain sections: an effective way to preserve cadaveric resource material, 1,68,000

Govt of NCT of Delhi under the plan scheme “Strengthening of Medical Research at MAMC”., Dr Shikha Singh, Anatomy of heart and kidney in a new light: plastination as a scientific method for teaching and research, 1, 31, 300

Govt of NCT of Delhi under the plan scheme “Strengthening of Medical Research at MAMC”., Dr Preeti Goswami, Association of serum vascular endothelial growth factor levels with its placental expression and histomorphological changes in preeclampsia, 2,95,000

Seminars Organized

Dr Sabita Mishra, Director Professor and Head, MAMC, Govt of NCT of Delhi, Laboratory Techniques in Molecular Genetics and Cytogenetics, 23-03-2023

Conferences Organized

Spine Endoscopy Cadaveric Workshop & Live Surgery , 21-07-2023, GNCT

Seminar/Conference Presentations

Dr Sabita Mishra delivered a guest lecture Surgical anatomy of sigmoid sinus at International conference of neurosurgery at G.B.Pant hospital in Sep 2023

Other Inter-Institutional Collaboration

Development of the blood nerve barrier of the human cochlear nerve funded by the ICMR. Dr Sabita Mishra

and Dr Surbhi Wadhwa. With AIIMS, New Delhi.

Extension and Outreach Activities

Body donation awareness campaign

Polio prevention program

Faculty Strength

Senior Professor/Professor/Director: 7

Associate Professor: 2

Assistant Professor: 1

Ad-hoc Faculty Member: 1

ANATOMY (UCMS)

Major Activities and Achievements:

The Department has well equipped Labs for research in Neuroanatomy, Osteology, Histology, Gross Anatomy and Anthropometry. The Department participates in teaching of MBBS, MD Anatomy, B.Sc. Physiotherapy, B.Sc. Nursing, B.Sc. Radiography, MDS students. The Department is also an active collaborator and organizer of various cadaveric workshops for post-graduate training and skills training in surgical and allied disciplines. Postgraduate students are actively working on luminal casting and plastination of specimens. The department accepts donated bodies from Dadhichi Deh Daan Samiti for teaching undergraduate medical students and for research purposes.

Honors/ Distinctions

Dr. Renu Chauhan received an award of excellence in Healthcare on the occasion of National multidisciplinary medical Conclave on 23.4.2023.

Dr. Renu Chauhan received an award by Physicians Forum of India on doctors' day for teacher and mentor par excellence on 28.6.2023.

Dr. Rakhee Sharma received best young excellence award on 5th January 2024 in 31st annual conference of NAI.

Dr. Ankana Saha received Best Teacher Award 2023 (Higher Educational Institution level) by the InSC Institute of Scholars.

Dr. Sankat Mochan received Dr. H.J. Mehta Memorial award for the published article in 70 th NATCON, 2023 at Arunachal Pradesh.

Publications:

Neha, Choudhary, N., Kour, G., Kalra, S., Chauhan, R., Ullah M. (2023). Evaluation of Surgical Anatomy of Common Hepatic Artery: An institutional based study. *International Journal of Life Sciences. Biotechnology and Pharma research* 12 (3), 2286-2288.

Sonu., Chauhan, R., (2023). Evaluation of the Histomorphometric Effects on Testis Following Administration of Cypermethrin in a Mammal, Albino Rat. *International Journal of Toxicological and Pharmacological Research* 13(2), 178-186.

Sonu., Chauhan., R., (2023). The Effect of Cypermethrin on the Fertility Index of Adult Albino Rats. *International Journal of Pharmaceutical and Clinical Research* 15(2), 988-995.

Kalra, S., Yadav, S., Wadhwa, S., Jain, S. (2024). Caramel Color Paradox: Is It A Safe Natural Food Or A Chemical? *UCMS Journal of Medical Sciences* 2(1), 24-28.

Saha, A., Saha, S., Neha, K.M. (2023). Agenesis of isthmus of thyroid gland- a case report. *Journal of Pharmaceutical Negative Results* 14(02), 622-624.

Saha, A., (2024), Cadaveric Study of Renal Pelvis and Ureter: its incidence, types, and applied importance. *IJSR*. 13(1), 65-67.

Gupta, S. K., Mochan, S., Arora, P., Rani, N., Luthra, K., Dwivedi, S., Bhatla, N., Kshetrapal, P.,

Dhingra, R. (2023). Hydrogen sulfide promotes migration of trophoblast cells by a Rho GTPase mediated actin cytoskeleton reorganization. *Placenta*. 2023 Oct; 142:135-146.

Journals

No. of Departmental teachers serving as editors/ members of editorial board = 2

Seminar/ Conference Presentation (National/ international):

Dr. Ankana Saha presented the research paper Cadaveric Study of Renal Pelvis and Ureter: its incidence, types and applied importance in BMSeCON-2023 (International conference), AVMCH, Puducherry, India held from 13th - 15th December, 2023.

Dr. Sankat Mochan presented the research paper “Early onset of Preeclampsia reflects upregulation of GRP78 in placenta of preeclamptic mothers” in the 70th National annual conference of Anatomical Society of India at Tomo Riba Institute of Health and Medical

Sciences (TRIHMS), Naharlagun, Arunachal Pradesh, December, 2023.

Extension and Outreach Activities:

Associated with “Dadhichi Deh Daan Samiti” and “Saksham” for promotion of cadaveric donation for the purpose of education and research.

Associated with National Medicos Organization, for arranging health camps and organ donation awareness etc.

Faculty Strength: 05

BIOCHEMISTRY (VPCI)

Major Activities and Achievement

The Department of Biochemistry is actively involved in the teaching and guidance of postgraduate M.D. Medical Biochemistry & Ph.D. students, research and providing diagnostic services for patient care. The Department till date has produced over 200 Ph.D. and a large number of M.D. postgraduates.

In our endeavor towards continuous quality improvement for better patient care, the diagnostic laboratory is enrolled in the NABL accredited proficiency testing provider for Clinical Biochemistry, CMC external quality assurance scheme, and successfully completed the participation for year 2023.

Publications

Pal, G., Mishra, H.P., Suvvari, T.K., Tanwar, A., Ghosh, T., et al. (2023) Oxidative Stress in Wistar Rats Under Acute Restraint Stress and Its Modulation by Antioxidants and Nitric Oxide Modulators. *Cureus* 15(8):e43333.

Bhalerao, U. *et al.* (2023). An Updated Review on Influenza Viruses. In: Bhukya, P.L., Mhaske, S.T., Sonkar, S.C. (eds) *Emerging Human Viral Diseases*, Volume I. Springer, Singapore.

Bhadra, J., Ansari, S., Singh, M. (2023) Serum Free Light Chain ratio: Utility as marker of residual disease in monoclonal gammopathies. *Int J Med Rev Case Rep* 7(4), 67-70.

Bhadra, J., Birde, K. (2023) Biclonal Gammopathy: A case report. *IOSR JDMS* 22(1) 7-9 Ansari S., Bhadra J, Ahirwar, A. K., Gupta, J.(2023) Correlation analysis of HbA1c versus random, fasting, and postprandial glucose levels as predictors of glycemic control in type 2 diabetes patients. *Asian Journal of Medical Science* 14 (4) 37-43.

Research Projects

MRU -ICMR, Prof. Vishwajeet Rohil, To study the genetic polymorphisms of CHI3L1 gene and its association with the oxidative-antioxidative balance in Chronic Obstructive Pulmonary Disease in North Indian population, 2.30 Lakh

LSRB project, DRDO (Delhi), Prof. Ritu Kulshrestha, Nanotherapy of lung fibrosis using gene editing, 77.93 Lakh

Seminar/Conference Presentations(Maximum 10)

Prof. Vishwajeet Rohil was an Expert in Parul Institute of Paramedical and Health Sciences Workshop “Medical Innovation in Healthcare at National Healthcare Skill Conclave 2024 (NHSC24)”, Parul University, Vadodara, Gujrat.4th March 07.03.2024

Dr. Karishma Birde V. Rohil, J. Bhadra, S. Goel participated and gave Oral Paper presentation on “To study the genetic polymorphism of CHI3L1 gene and its association with the oxidative balance in COPD” Association of Medical Updates and GMC Datia M.P Conference: AMUMCON-2024, “Contemporary Health Issue-Integrated Approach with Recent Updates” GMC Datia M.P on 14-15.03.2024

Other Inter-Institutional Collaboration

The department has provided the “Training in Biochemistry Techniques” to the Postgraduate/graduate students of different Universities/Institutes.

Faculty Strength

Director Professor: 1

Associate Professor: 1

COMMUNITY MEDICINE (MAMC)

Honours

Dr. M.Meghachandra Singh was given award of appreciation for conducting training on adverse event following immunization for medical officers in Delhi.

Dr. Nandini Sharma was awarded A. Sarma oration in NAPCON

Dr. Shivani was given award of appreciation for conducting training on Adverse event following immunization for medical officers in Delhi.

Research Scheme Ongoing projects

Dr M. Meghachandra Singh

Disease Sequel in Recovered COVID-19 Patients: A Prospective Study, project id: 2021-3008, Funded by ICMR.

Health Impact of Firecrackers Bursting during Diwali in National Capital of Delhi, 2019-2023, Funded by Central Pollution Control Board, Delhi.

Hearing Aid Feasibility study funded by WHO.

The Effect of Air Pollution and Genetic Association in relation to Respiratory Health among Healthy Population in Delhi, India: Funded by Delhi State Industrial and Infrastructure Development Corporation Limited (DSIIDC)

The predictors of Incidence, Reinfection and Severity of disease in a cohort of SARS-CoV-2 antibody positive cases - A Prospective study funded by ICMR

Dr Nandini Sharma

The development of a Health and demographic surveillance site with focus on epidemiological survey of Dengue and Chikungunya in an urban resettlement colony and slum in Delhi. Funded by Biotechnology Industry Research Assistance Council (BIRAC)

Transforming and Scaling Up Skills of T.B. Healthcare Functionaries: Competency Assessment: Accepted for funding by ICMR

Dr Bratati Banerjee

Barriers and facilitators to service utilization and management of Sexually Transmitted Infections in India:
A Multicentric Mixed Method Approach

Dr Nidhi Bhatnagar

Mixed Method Study to understand Human Dog interaction among rural and urban community in Delhi.

Dr Amod L. Borle

The predictors of Incidence, Reinfection and Severity of disease in a cohort of SARS-CoV-2 antibody positive cases - A Prospective study funded by ICMR

Disease sequel in recovered COVID 19 patients a Prospective Study. (COVIFLU study) funded by ICMR

Dr Shivani Rao

The development of health and demographic surveillance site with focus on epidemiological survey of dengue and Chikungunya in an urban resettlement colony and slum in Delhi: a prospective observational study

Dr Ekta Arora

The prevalence of energy drinks consumption among the students of a medical college in New Delhi, and their perceptions towards the same.

Dr Samar Hossain

The prevalence of energy drinks consumption among the students of a medical college in New Delhi, and their perceptions towards the same.

Training course/Conferences/Workshops organized:

Dr M. Meghachandra Singh was Organizing Chairperson

International Conference on “Current Challenges in Occupational and Environmental Health”, 28-30th November, 2023, MAMC, New Delhi

Workshop on “Learn and Master Office Ergonomics Skills” on 27.11.2023, MAMC, New Delhi

Associate Fellow of Industrial Health (AFIH), under Ministry of Labour, Govt. of India

Bio Medical Waste Management (BMW) Training for physicians, nurses, para – medicals, undergraduates

Training on Quality assured data capture using mobile data (Epidata) on 26& 27 Oct 2023

Conducted 6 Trainings on Adverse Event Following Immunization (AEFI) and vaccine safety (January 30&31, February 13&14, February 20&21, March 14&15, March 27&28 & November 3rd, 2023)

Organized CME on topic- “Tuberculosis Elimination in 2025: Role of medical colleges” on 5th December 2023

CME on National Tuberculosis Elimination Program updates & advances in Tuberculosis

Dr Nandini Sharma

CME on National Tuberculosis Elimination Program updates & advances in Tuberculosis

Dr Bratati Banerjee

CME Program for Post Graduate Medical Students on STIs/RTIs on 12th December and 15th December, 2023

Dr Nidhi Bhatnagar

National Health Program Updates, Organized by IAPSM, State Chapter

International Conference of Occupational and Environmental Health 28-30 Nov 2023

Session on Achieving Sustainable Development Goals 3: Need to Focus on International Strategies of De-Addiction of Drugs Tobacco Alcohol and Smartphones. 22nd Dec 2023.

CME Program on RTI/STI organized by Regional STI Reference, Research and Training Center, Maulana Azad Medical College, New Delhi on 11th and 12th Dec 2023.

Workshop on Quality Improvement in Healthcare, Organized under IAPSM, Delhi State Chapter in collaboration with AIIMS New Delhi on 24th Nov 2023.

Dr Amod L. Borle

Resource faculty for basic and advance E-course on Tobacco conducted by RCTC, GoI (at PGI Chandigarh)

02 AEFI Trainings for MOs and Nodal Officers under State AEFI TCC in collaboration with DFW, GNCTD

Resource person for Research Methodology workshop of IAP

Dissemination workshop ICMR COVID – RIF & COVIFLU study.

Dr Shivani

Training on Quality assured data capture using mobile data (Epidata) on 26& 27 Oct 2023

Conducted 6 Trainings on Adverse Event Following Immunization (AEFI) and vaccine safety (January 30&31, February 13&14, February 20&21, March 14&15, March 27&28 & November 3rd, 2023)

Organized CME on topic- “Tuberculosis Elimination in 2025: Role of medical colleges” on 5th December 2023

Dr Anika

CME on Updates in national health Programs, 13-14 December 2023

Workshop-Quality improvement in healthcare in collaboration with CCM, AIIMS, NEW DELHI, 24 Nov.2023

International Conference on "Current Challenges in Occupational and Environmental Health", 28-30 November 2023

National Pharmacovigilance Week celebration activities in CM department, 17 – 23 September 2023

Publications

Singh, M.M., Basu, S., Lalwani, H., Rao, S., Maheshwari, V., Shrivastava, R., Sharma, N. (2023) Hypertension care cascade in an urban resettlement colony and slum in Delhi, India: a cross-sectional survey. *BMC Public Health* 23, 2116.

- Mawari, G., Kumar, N., Pathak, U., Sarkar, S., Daga, M.K., Singh, M.M. et al. (2023) The association between different types of cooking fuels and common health problems: north India region. *International Journal of Community Medicine and Public Health*.10 (2): 696–701.
- Sarkar, S., Mawari, G., Kumar, N., Daga, M.K., Singh, M.M. (2023) Evaluation of Water Quality, Urinary Mercury & Arsenic Investigation and Survey of Diseases Associated with Drinking Water Sources. *International Journal of Medical Students* 10, S222.
- Mongjam, A., Matreja, P.S., Devi, R., Singh, M. M. (2023) A cross-sectional study on self-medication for Covid-19 and associated factors among adults in a residential colony of East Delhi. *International Journal of Pharmaceutical Sciences and Research* 14(7), 3428-36.
- Borle, A.L., Deshmukh, C.P., Garg, S., Singh, M.M., Singh, A., Bharadwaj, P. et al. (2023) Compliance Assessment of Tobacco Products to Cigarettes and Other Tobacco Products Act in India with Reference to Third Amendment Rules, 2020. *Asian Pac J Cancer Prev* 24(3), 999-1005
- Sharma, N., Basu, S., Singh, M.M., Lalwani, H., Rao, S., et al. (2023) COVID-19 Booster Dose Coverage and Hesitancy among Older Adults in an Urban Slum and Resettlement Colony in Delhi, India. *Vaccines (Basel)* 11(7), 1177.
- Rao, S., Basu, S., Nandi, K., Singh, M.M., Lalwani, H., Sharma, N. et al. (2024) Metabolic syndrome burden, determinants and treatment status in an urban slum resettlement colony in Delhi, India. *Int Health*. ihae024
- Sharma, N., Bakshi, R., Basu, S., Zode, M., Arora, R., Khanna, A. (2023) Implementation of tuberculosis preventive therapy with INH-Rifapentine (3HP) for latent tuberculosis infection management in household tuberculosis contacts in India: A prospective study. *Tropical Med Int Health*.
- Garg, P.K., Batra, G., Murugesan, D.R., Raghavan, S., Chattopadhyay, S., Sharma, N, et al. (2023) Trends of Durable Humoral Immune Responses to Heterologous Antigenic Exposure by Vaccination and Omicron SARS-CoV-2 Infection: Implications for Boosting. *Indian J Med Res*. 157(6), 509–18.
- Sodhi, P.K., Gautam, A., Rao, K.C., Archana, T.R., Sharma, N., Marimuthu, Y. (2023) Color perception on Ishihara plates with red lenses in subjects with low vision due to retinal diseases. *Indian J Ophthalmol*. 71(11), 3534-38.
- Marimuthu, Y., Chandrasekharan, Nair G., Nagesh, U., Anand, A., Chopra, K.K., Sharma, N., et al. (2023) Prevalence of probable post-COVID cardiac sequelae and its health seeking behaviour among health care workers: A cross-sectional analytical study. *Indian J Tuberc*.
- Banerjee, B. (2023) A qualitative study to assess dynamics of major injuries in children and adolescents of a rural area of Delhi. *International Journal of Community Medicine and Public Health* 10 (11), 4142-46.
- Banerjee, B., Banerjee, R. (2024) Haddon’s matrix for spectrum of road-related major injuries in rural adolescents: a case series analysis. *International Journal of Community Medicine and Public Health* 11(4), 1692-97
- Lachyan, A., Zaki, R.A., Banerjee, B., Aghamohammadi, N. (2023) The Effect of Community-Based Intervention on Dengue Awareness and Prevention Among Poor Urban Communities in Delhi, India. *Journal of Research in Health Sciences* 23(4), e00596.

Sodhi, P.K., Shaw, E., Gautam, A., Rao, K.C., Banerjee, B., Rastogi, A., et al. (2023) The association of neovascularization with optical coherence tomography angiography parameters in proliferative diabetic retinopathy. *Cureus* 15 (5), e39633.

Jain, A., Borle, A. L., Bej, P. (2023) Study on knowledge about Rashtriya Kishor Swasthya Karyakram (RKSK) among adolescents attending health centre in Delhi. *International Journal of Scientific Research* 12(5), 57-60

Sharma, P., Rao, S., Saxena, S., Manchanda, V., Chawla, R., Mariam, W., et al. (2023) A Prospective Study on the Transmission Dynamics of Corona Virus Disease (2019) (COVID-19) Among Household Contacts in Delhi, India. *F1000Research* 12, 201.

Hossain, S., Budh, N., Arora, P., Sharma, V. (2023) First-year Medical Undergraduate Students' Perceptions and Experiences Regarding Family Adoption Program: Challenges and Lessons. *Journal of Medical Academics* 6 (2), 49-52

Hossain, S., Goswami, S., Arora, H., Mishra, A., Arora, E. (2023) Assessment of knowledge, perception and intent among health professional students on breastfeeding: A cross sectional study. *Indian J Forensic Community Med.* 10(4), 166-69

Rasania, S.K., Debbarma, S., Arora, E. (2023) Collaboration with Medical Colleges and Public Health Institutions for Implementation of National Health Programs: The Way Forward. *Indian Journal of Public Health* 67(3), 461-62

Sharma, N., Arora, E., Lahariya, C., Chopra, K. (2023) Competency based medical education as an accelerator to end tuberculosis (End TB) in India. *Indian Journal of Tuberculosis* 71 (1), 7-11

Singh, S., Sulania, A., Jha, R., (2023) Knowledge, Attitude, And Practice of Medical Graduate towards Coronavirus Disease 2019). *International Journal of Medical Science and Current Research.* 6 (3), 689-97

Rustagi, N., Dileepan, S., Mittal, A., Solanki, H.K., Kelly, D., Raghav, P. (2023) Untapped potential of commercial drivers in providing post-crash care to road traffic accident victims: A cross-sectional study from fast urbanizing city of Jodhpur, India. *J Neurosci Rural Pract.* 14(4), 629-36.

Baidya, M., Pandey, S.K., Solanki, H.K., Singh, A.D., Giri, S., Altamash, S. (2023) Risk factors for development of pneumothorax in patients with COVID-19 at a government health facility in North India: An exploratory case-control study. *J Acute Dis* 12(6), 238-43.

Mittal, S., Rawat, C., Gupta, A., Solanki, H.K., Singh, R.K. (2023) Adverse Events Following Immunization Among Children Under Two Years of Age: A Prospective Observational Study From North India. *Cureus* 15(4), e38356.

Gupta, A.K., Mathur, M.K., Giri, S., Solanki, H., Pandey, S., Gupta, S. Changing Doctor Patient Relationship: Patients Perception About Doctors & Expectations From Them In Today's Times – A Single Centre Study From NCR. *Int J Acad Med Pharm* 5 (4), 1160-4

Books/Chapters

Goswami, S., Singh, M. (2023) Improved health or Status Quo: National Family Health Survey first to fifth round. In: Pal R, Ghosh A, Agarwal A, Chatterjee S, Paul SK, Murlimanju BV, editors. *Recent Advances in Community Medicine and Public Health*. 2nd ed. Gujarat: Mahi Publication, p.211-228.

Conferences/Workshops/Symposiums attended:

Dr Rajesh Kumar

CME on recent advances in SAM and Anaemia at VMMC, Delhi.

50th National IAPSM Conference, Hyderabad

International Conference on current challenges in occupational and environmental health at MAMC.

Dr Amod L. Borle

Indian Association of Epidemiology conference 2023

International Conference on Current challenges in Occupational and environmental health 2023 New Delhi

Roundtable meet on public health education – PHFI and Sydney university

World Hearing Forum Meet WHO. 09 May 2023

National AEFI training held by WHO and GoI 26-28 July 2023

Dr Shivani

Attended training by WHO and MoHFW workshop on AEFI surveillance and causality assessment , 26-28 July 2023 at Hotel Le Meridien, Sector 26 M.G. Road, Gurgaon Delhi Border, Gurugram, Haryana 122002

Indo-US Workshop on ‘Clinical Research Ethics’ on August 03, 2023-CDSA-THSTI, DBT, India in collaboration with the National Institute of Health (NIH) Department of Bioethics, United States of America under Indo-US Vaccine Action Programme at the Seminar Hall 1, THSTI, NCR Biotech Science Cluster, Faridabad, Haryana,

Attended workshop on ‘Surveillance of Acute febrile illness (AFI) with focus on dengue and chikungunya – A prospective multi- centric cohort study’ – 10 to 13 April 2023 in Hotel Surya

Dr Anika

10th CME workshop for Doctors on “Pharmacovigilance for Patient Safety”, 21st September 2023

Panel Discussion- roundtable discussion on Frontline Worker resilience, 01 st September 2023

Fellowship:

Dr Hariom Kumar Solanki was accepted as Cohort 2023 Fellow, India Health Policy and Systems Research, Health Systems Transformation Platform.

Outreach/ Health Services to the Community:

Basti Vikas Kendra, Balmiki Basti

Academic Services:

Visit to Anganwadi Center by Under graduate students and interns

Discussion amongst Junior Residents, Senior Resident and Interns on Management, Diagnosis and treatment on Diabetes, Hypertension, Mental Health, Cardiovascular Diseases, Personal Hygiene.

Referral Services:

Two way referral services to LNH were given to patients when required.

Total Population Covered: 1749

UHC Gokalpuri

The following activities were conducted at Urban Health Centre Gokalpuri:

O.P.D. services for special clinics- ANC, Immunisation, Well Baby, NCD

M.C.H. and family welfare services

Implementation of National Health programmes

Referral services

Total population catered: 20,058

Male: 11,160

Female: 8,898

Rural Health Training Centre, Barwala

Rural Health Training Centre (RHTC), Barwala is Health Centre located in Barwala, the field practice area under the Department of Community Medicine, Maulana Azad Medical College, New Delhi.

Services provided:

OPD services (General OPD, Geriatric & NCD Clinic)

ANC management of common medical problems, referral and follow up.

MCH and family welfare services

Implementation of National Health Programmes

School Health Services

DISHA clinic for adolescents (10-19 years) on Saturdays addressing common issues like Growth and development, nutrition, sexual and reproductive concerns, mental health etc. in adolescent.

NCD clinic on Thursdays for screening and management of common NCDs like diabetes, hypertension etc., increasing health awareness about NCDs and their prevention along with screening of whole population of Barwala village is an important function of this clinic.

Referral services

Total Population (Field Practice Area)

Barwala – 7535

Sultanpur – 5064

Pooth Khurd - 21049

COMMUNITY MEDICINE (UCMS)

Major Activities and Achievements

Department of Community Medicine is providing high quality undergraduate and postgraduate teaching and is involved in providing the essential primary health care at its UHTC and RHTC. Adult Immunization Clinic providing vaccines like Hepatitis B, Tdap etc. for UG and PG students was started in UCMS premises last year.

Regular diagnostic and screening health camps are also organized for the adopted families in collaboration with other clinical departments of GTB Hospital and Medical officers and peripheral health workers of Health Centres in Nand Nagri.

Honours/Distinctions

Dr SK Bhasin is a Member, PG Board of Studies in Community Medicine at Pt.BD Sharma University of Health Sciences Rohtak.

Dr AK Sharma is Member, Scientific Advisory Committee, ICMR-NATIONAL Institute of Occupational Health.

Dr Pragti Chhabra is Honorary Chairperson of the Maternal Infant and Young Child Nutrition Indian Association of Preventive and Social Medicine (MIYCN IAPSM) National Working Group

Publications

Scopus

Aggarwal, A., Maroof, K. A., Patra, S. & Shah, D. (2024) , Effect of COVID-19 Lockdown on Maternal and Infant Healthcare Services in an Urban Resettlement Area of East Delhi. *Cureus*, 16 (1), e52156

Kumar, S., Jain, A. K., Maroof, K. A., Aggarwal, A. N., Arora, R., Dhammi, I. K., & Gupta, H.(2023), Effect of COVID-19 on the Burden and Profile of Orthopaedic Patients Admitted Post-Resumption of Routine Services in a Tertiary Care Hospital in Delhi *Cureus*, 15 (8), e44074

Ranjitha, R., Maroof, K. A., Rajoura, O. P. & Shah, D.(2023) , Workplace Breastfeeding Support and Breastfeeding Practices among Healthcare Professionals, *Indian J of Community Medicine* 48 (3): 453–458

Rawlley, B., Khan, A. P., Chopra, S., Bansal, K., Anamika, FNU. & Khan, A. M (2023) Gender differences in first authorship of randomized controlled trials from India. *Contemporary Clinical Trials* 125 , 107081

Behera S, Sharma R, Yadav K, Chhabra P, Das M, Goel S. (2024), Prevalence and predictors of risk factors for cardiovascular diseases among women aged 15–49 years across urban and rural India: findings from a nationwide survey. *BMC Women's Health*, 24, 77

Sharma, A. K, Dhabhai, A., Mohanty, S.S.(2024), A preliminary study on the impact of household air pollution on adult respiratory health in urban and rural settings of Jaipur, India. *Indian Journal of Community Medicine*, 49 (1):165-169

Kataria, P., Bhasin, S. K., Upadhyay, M.K., & Madhu, S. V. (2023) , Quality of life among type 2 diabetes patients aged 30–64 years attending diabetes clinic in a tertiary care hospital in East Delhi. *International*

Journal of Diabetes in Developing Countries , 43 , 929-35

Swain, R.K., Mohanty, S.S., Thakor, M., Sharma, A.K. (2023), Assessment of thermal and temporal stability of SARS-CoV-2 samples using real time qRT-PCR. *Molecular Biology Reports* , 50 (10):8565-8573.

Panigrahi, A., Sharma, A.K., Thakor, M., Yadav, S., Mohanty, S.S., Singh, P., Dhikav, V., Hudda, R.K., Pawar, M., Madhu S.V., Moosan, H.(2023) , Implementation Research on diabetes in India: A systematic Review. *Clinical Epidemiology and Global Health* , 24 , 1-9

Moosan, H., Thakor, M., Sharma, A.K. et al. (2023), Protocol of systematic reviews on implementation research on cardiovascular diseases, diabetes mellitus and mental ailments in India, *F1000 Research*, 12 , 100

Asthana, A., Tripathi, S., & Agarwal, R. (2023), A Systematic Review and Meta-Analysis of Randomized Control Trials to Check Role of Non-Steroidal Anti-inflammatory Drugs as Protective Factor in Alzheimer Disease Subjects. *Advances in Alzheimer's Disease*, 12 , 1-16

Asthana, A., Agarwal, R. and Tripathi, S. (2023), Non-Steroidal Anti-Inflammatory Drugs as Protective Factor in Alzheimer's Diseases: A Systematic Review and Meta-Analysis Protocol. *Advances in Alzheimer's Disease*, 12 , 17-28

Research Projects

State RNTCP Delhi State Health Mission , Dr Somdatta Patra, Barriers and facilitators for DOTS therapy under RNTCP among elderly Tuberculosis patients: A Qualitative Study” Operational Research Project, INR 1,96,000

Delhi State AIDS Control Society, Dr somdatta Patra, Factors Influencing Access of ART Services among Transgenders (TG), a HIV Positive Key Population: A Mixed Method Study from Delhi, INR: 1,96,200

Seminars Organized

Dr Anita Gupta, Dr Kshitij Agarwal, Dr Naudibya Majhi, WHO/UNICEF/BPNI trainer & course director of IYCF (Infant & Young Child Feeding), Senior Resident, UCMS, UCMS, a. CME - on “Breastfeeding Support for Working Parents” , 05-08-2023

Dr Khan Amir Maroof, Dr Pragti Chhabra, Dr Somdatta Patra, Director Professors Depament of Community Medicine, UCMS, UCMS, b. Development of an implementation framework for Maternal, Infant and Young Child Nutrition (MIYCN) Curriculum for medical undergraduates , 27-03-2024

Seminar/Conference Presentations

Dr Pragti Chhabra, Stakeholder Engagement Workshop on “National Biomonitoring Programme for Chemical Toxicants" at NCDC, Delhi. 14-15 March, 2024. Invited speaker- Dr AK Sharma, Global RECHARGE India dissemination event, Symbiosis University, Pune, 18-19, November, 2023.

Dr Somdatta Patra presented a research paper on ‘Development of Trans-affirmative competencies to promote equity in medical education using a ‘community based participatory approach’ in the 51st Annual National Conference of Indian Association of Preventive and Social Medicine held from 8-10 Feb 2024 at

KMC, Mangalore.

Dr Khan Amir Maroof was invited Speaker for Role of vaccines in pre and post exposure prophylaxis of Rabies in the Annual National Conference of Consortium Against Rabies held on 8th Dec 2023 at School of Public Health, DY Patil University, Navi Mumbai, Maharashtra.

Dr Shashank Tripathi. “A Network Meta-Analysis of COVID-19 Vaccines Efficacy” at “Science conclave cum 4th Biomedical Research Competition” held from 9-10 December, 2023.

Other Inter-Institutional Collaboration

Dr Shashank Tripathi is collaborating in independent multiple scientific studies with All India Institute of Medical Sciences (New Delhi), Ram Manohar Lohia Hospital (New Delhi), University of Lucknow (Lucknow), AMRITA Institute of Medical Sciences (Faridabad), Mahatma Gandhi University of Medical Sciences and Technology (Jaipur), Institute of Human Behavior and Allied Sciences (New Delhi), Saraswathi Institute of Medical Sciences (Uttar Pradesh), Lala Lajpat Rai Medical College (Uttar Pradesh), Indian Institute of Management- Lucknow (Uttar Pradesh), and Banaras Hindu University (Uttar Pradesh).

Number and percentage of students placed

All students have got placements

Extension and Outreach Activities

Department of Community Medicine is running one Urban Health and Training Centre in Dilshad Garden, East Delhi and caters to the outreach areas of Tahirpur Sarai and Tahirpur village. Primary health care services and regular health education activities are carried in these marginalised populations through its faculty, CMO, residents and field staff in collaboration with most peripheral health functionaries. Department has its rural outreach centre at village Singhola in Narela where preventive, promotive and curative services are provided daily both at the Centre and in the community in Singhola village.

Faculty Strength

SeniorProfessor/Professor/Director : 8

Assistant Professor : 2

DENTAL SCIENCES (MAULANA AZAD INSTITUTE OF DENTAL SCIENCES)

Major Activities and Achievements

The institute was ranked 4th rank in NIRF and successfully renewed its NABH certification. “Dental Technology Innovation Hub” has been set up which is supported by the Department of Science and Technology (DST) under the Bio-medical Device and Technology Development (BDTD) Program is functional and garnered approval and funding to establish the ICMR – Centre for Advanced Research (CAR), marking a significant milestone as the sole entity in the dental sphere to achieve such recognition.

The institute renewed its MOU with MoHFW for National Resource Center for Oral Health and Tobacco Cessation under NOHP, MoHFW, Govt. of India. The independent surveys on Best Dental Colleges -2024 India Today-MDRA, Outlook-I care and The Week- Hansa have ranked MAIDS as the best dental college in India at position no.1. The “Central Tissue Bank” stands as a pinnacle of excellence in graft processing and preservation.

Honours/Distinctions – Add faculty fellowships etc

Dr. Monica kelkar was awarded Post graduate diploma in Hospital by NHSRC.

Dr. Sujoy Ghosh was awarded Membership by National Academy of Medical Sciences.

Dr. Vikrant Mohanty was awarded the FAIMER Fellowship.

Dr. Sujoy Ghosh was awarded best paper at 20th National Triple O Symposium, BHU, Varanasi.

Publications

Mohanty, S., Bansal, N., Verma, A., Urs, A.B. (2024) Mandibular primary intraosseous carcinoma arising from long-standing odontogenic keratocyst. *Oral Surg Oral Med Oral Pathol Oral Radiol*, 137(2), e8-e15.

Deepika, K., Goel, S., Gupta, R., Jain, R.A. (2024) Application of Polyvinyl chloride sheet as delayed surgical obturator in maxillectomy defects secondary to mucormycosis - A case series [published correction appears in] *J Oral Biol Craniofac Res*. 14(4):357.

Duggal, I., Singh, N., Tripathi, T. (2023) Queries regarding clinical finite element analysis of mandibular displacement model treated with Twin-block appliance. *Am J Orthod Dentofacial Orthop*. 164(4), 461-462.

Jaganathan, V., Kumar, R., Nawal, R.R., Talwar, S. (2023) Comparison of Dentin Microstructure and Its Correlation to the Direction of Fracture Line in Mandibular Molars of Young and Older Individuals: In Vitro Study. *J Endod*. 49 (11), 1508-1513.

Goswami, M., Johar, S., Khokhar, A. (2023) Oral Health Considerations and Dental Management for Epileptic Children in Pediatric Dental Care. *Int J Clin Pediatr Dent*. 16(1), 170-176.

Garg N, Lamba AK, Faraz F, Tandon S, Datta A, Dhingra S(2024). Management of grade II and III furcation defects with intramarrow penetration along with indigenously prepared DFDBA and amniotic membrane: a clinical and radiographic study. *Cell Tissue Bank*.;25(1):295-303.

Jain S, Bajaj A, Mohanty V, Arora S, Gangil N, Grover S. (2024) Assessing Social Distancing Strategies in Government Schools of Delhi, India: A Formative Research Study. *Int J Clin Pediatr Dent*.;16(1):101-106.

Garg A, Urs AB, Koner BC, Augustine J, Guru SA.(2023) Evaluation of Diagnostic Significance of Salivary miRNA-184 and miRNA-21 in Oral Squamous Cell Carcinoma and Oral Potentially Malignant Disorders. *Head Neck Pathol*.;17(4):961-968.

Gv V, Tripathi T, Rai P, Mahajan B, Kanase A (2023). Association, diagnostic accuracy and optimal threshold of salivary IGF-1 and vitamin DBP levels for estimation of pubertal growth spurt: A cross sectional study. *Int Orthod*.;21(3):100786.

Kamal Z, Lamba AK, Faraz F, et al. Effect of gamma and Ultraviolet-C sterilization on BMP-7 level of indigenously prepared demineralized freeze-dried bone allograft. *Cell Tissue Bank*. 2024;25(2):475-484.

Journal published by the College

MAMC Journal of Medical Sciences, edited by Dr. Lalit Maini, Frequency 3 per year

Research Projects

Council of Scientific & Industrial Research, 2019-2023, Gum Drop Technique with Titanium Prepared Platelet Rich Fibrin for The Treatment of Multiple Gingival, Rs. 30,00,000

Centre For Scientific & Industrial Research, 2021-2024, Development of Advanced Dental Implant for Critical Clinical Applications, Rs. 61,00,000.

Department of Science and Technology, 2023-25, Phase II – Design and development of novel instrument retrieval equipment for removal of separated instruments during endodontic therapy, Rs. 55,70,140.

Department of Science and Technology, 2023-27, Dental Technology Innovation Hub, Rs. 5,31,45,878 (6 research projects).

Department of Science and Technology, 2023-2025, Design and prototype fabrication of Ultrasound (US) based tooth Pulp vitality tester, Rs. 61,33,640

Patents Filed/Granted: 2

A herbal denture adhesive and process of its preparation.

Non contact type ultrasound approach to detect separated instrument in the tooth during root canal therapy.

Seminars Organized

Dr. Debasis Basu, Diabetologist and General Physician in Salt Lake, Kolkata, “Diabetes & Oral Health”, Systemic health and Oral health, 31-05-2023.

Dr. Swasticharan.L, Dr. Rathi Balachandran, Dr. Sonali Jhanjee, Dr. Shivam Kapoor, "Capacity Building Program for Nursing Professionals in Tobacco Cessation and Control", Tobacco Cessation for health care workers, 05 – 06 -2023.Dr. L. Swasticharan

Dr. Vivek Hegde, Professor, Head of Department and Vice Principal at M.A. Rangoonwala Dental College, Pune, Endodontic Retreatment & Instrument Retrieval Endodontics, 03.11.2023

Dr. L. Swasticharan, Shri. Danish Ashraf , Dr. Sabyasachi Saha, Dr. Rajkumar, Revolutionising tobacco cessation through technological interventions in India, Tobacco Cessation and technology, 6-11-2023

Conferences Organized

Preconference courses - 47th Annual Conference of Association of Oral and Maxillofacial Surgeons of India, 22- 11- 2023, OMFS.

33rd ISDR Conference 2023, 17th - 19th February 2023, ISDR, GGSIPU.

7th Annual Convocation of Fellows of Indian Board of Forensic Odontology, 22.09.2023, IBFO

Seminar/Conference Presentations

Dr. Arundeeep Kaur Lamba, Dr. Farrukh Faraz and Dr. Shruti Tandon conducted a workshop on guided Bone regeneration at Le-Meridian Hotel on 9th April, 2023

Dr Sujata Mohanty delivered a Keynote lecture on Current concepts in maxillofacial trauma in Traumathon at ITS Dental College, Greater Noida on 6th May, 2023.

Dr Rekha Gupta delivered a Keynote Lecture on Diagnosis and treatment planning Full Mouth Rehabilitation in CDE at Army Dental Centre, R &R Hospital, Delhi on 30th September, 2023.

Dr. Ruchika Roongta Nawal delivered a Keynote Lecture on Treatment Outcome of Partial and Full pulpotomy in Cariously Exposed Mature Molars with Signs of Symptomatic Irreversible Pulpitis: 2- Year Follow-up in American Association of Endodontists Meet at Chicago, USA on 3rd- 6th May, 2023.

Dr.Sangeeta Talwar delivered a Scientific presentation on Validation of minimally invasive management strategies(vital pulp therapy) as an alternative treatment for root canal therapy for management of deeply caries symptomatic teeth:a multicentric task force study in Programme at ICMR- National Institute of Medical Statistics on 26th April, 2023.

Dr. Tulika Tripathi delivered a Keynote Lecture on Artificial intelligence is it asli intelligence in 57th IOC at Subharti Dental College on 15th-17th September, 2023.

Dr. Priyank Rai delivered a Keynote Lecture on An overview of PEA technique National Integrated Typhodont Workshop at ITS dental college on 7th April, 2023.

Dr Gyanendra Kumar delivered a guest lecture on Er:Cr,YSGG Laser: A novel approach in Pediatric Dentistry in Conference of European Academy of Pediatric Dentistry at Egypt on 14th -17th February, 2023.

Dr. Aadithya B. Urs presented a scientific paper on Correlation between macroscopic, stereomicroscopic and histopathologic features of different pathological entities- A pilot study in 30th National IAOMP Conference at KLE Centenary Convention Center, Belagavi on 4th November, 2023.

Dr. Vikrant Mohanty delivered an online guest lecture on Exploring sustainable dental healthcare education in India: Mixed Method Study at FDI-Sustainability in Dentistry Summit on 5th June, 2023.

Dr. Gyanendra Kumar delivered a lecture on Role of Civil Societies to achieve sustainable development goal in Science Summit at UNGA 78 at United Nations on 12th-29th September, 2023.

National/International MoUs Signed

Tufts School of Dental Medicine, USA

MoHFW (National Oral Health Program) for National Resource center

Central Health Education Bureau, Govt of India

International Union Against Tuberculosis and Lung Disease (South East Asia)

Dental Technology Innovation Hub – with ICMR and other colleges for research and innovation

Other Inter-Institutional Collaboration

Indian Institute of Technology, Delhi

Indian Institute of Technology, Bombay

A.B. Shetty memorial Institute of Dental Sciences, Mangalore

Saveetha Dental College & Hospitals, Chennai

Guru Gobind Singh Indraprastha University, Delhi

M. A. Rangoonwala Dental College & Hospital, Pune

Student under Exchange Program

Inbound (Programs and number of students)

Geriatric Medicine PG Diploma students: 15

1st year Medical students of MAMC: 200

Outbound (Programs and Number of students)

National Medicos Organisation Delhi Prant - Indraprastha Skitsha Sewa Yatra : 1

SGT Dental College and Hospital: 15

CEDEES :5

Gurukool, MAMC : 15

Placement Details

Undergraduates : Total passed out - 40

Higher studies – 22 (55%)

Placement – 18 (45%)

Post Graduates : Total passed out - 22

Higher studies – 15 (68%)

Placement – 7 (32%)

Number of Companies visited for campus recruitment: 01

Clove Dental

Extension and Outreach Activities

No. of dental camps – 28 and served 4258 patients.

No. of child development centre visits – 86 and no. of children screened – 344

Mobile dental clinics:

Total number of patients screened– **13951**

Total number of patients treated - 5720

Total number of students screened in school visits – 11281

Total number of students treated in school visits – 1036

Total number of patients screened in Jail OPD– 3965

Total number of patients treated in Jail OPD – 622

Library Development

Maulana Azad Institute of Dental Sciences is equipped with a state of art Modern Library having around 7000 copies of relevant books and 89 titles of International and National journals of various specialty of dentistry with archives. Library of MAIDS is a member of National Medical Library, Delhi. The users can access the ERMED consortium through NML. The state of the art e- library is being developed along with reading room, Wi-Fi facility with ergonomic chairs spread over 17,600 sq ft.

In addition to this we have been procuring the rare books with recent edition to keep our faculties and students well informed about the recent development in the field of Dental Sciences all over world. Apart from this all the books and journals as recommended by DCI are also being procured time to time.

Faculty Strength

Total No. of Faculty – 31

Total No. of Senior Residents – 39

Total No. of Senior/Junior Research Associate -9

NHM Staff – (Consultant – 1, dental surgeons –8)

NRC Staff – (Research Officer – 2, dental surgeons – 1, Clinical Psychologist – 1)

DENTAL SCIENCES (UCMS)

Major Activities and Achievements

The Department carried out a month-long Oral Health promotion/awareness activities marking the Oral health Day on 20th March 2024 as a part of National Oral Health Program under the directive of Ministry of Health and Family Welfare, GoI. Under this initiative, outreach activities were organized by the department for the underprivileged children to sensitize them regarding prevention of oral health diseases and promotion of healthy oral and dietary habits. Lectures were also organized for the students of Nursing College and medical undergraduates.

Honours/Distinctions

Dr Harpreet Grewal Awarded Fellowship of World Federation of Orthodontists Dr Neha Winner of the BEST TABLE CLINIC in the 57th Indian Orthodontic Conference, 2023 organized by the Indian Orthodontic Society at Meerut.

Publications

Scopus

- Duggal, I., Singh, N., Tripathi, T. (2023). Queries regarding clinical finite element analysis of mandibular displacement model treated with Twin-block appliance. *Am J Orthod Dentofacial Orthop.* 164(4):461-462
- Garg, N., Khatri, A., Kalra, N., & Tyagi, R. (2023). The association of screen time with intake of potentially cariogenic food and oral health of school children aged 8–14 years—a cross-sectional study. , *Journal of Clinical Pediatric Dentistry* , 47 , 116–123.
- Goyal, T., Kalra, N., Tyagi, R., Khatri, A., Sabherwal, P., Yangdol, P. (2023). Evidence-based analysis of multi-pronged approaches for education and behavior management of autistic patients in a dental setting., *Special Care in Dentistry*, 43, 856–868
- Khandelwal, D., Kulkarni, S.V., Kalra, N., Tyagi, R., Khatri, A., Yangdol, P.(2023). A Rare Case of Shprintzen-Goldberg craniosynostosis syndrome with Hirschsprung disorder: Dental characteristics and its Clinical Management. *J Clin Exp Dent.* 15(12), e1054
- Kalra, N., Rathore, A., Tyagi, R., Khatri, A., Khandelwal, D., Yangdol, P. (2023). Management of anxiety using eye movement desensitization and reprocessing therapy in children undergoing extraction: a randomized controlled pilot study. *J Dent Anesth Pain Med.* 23(6), 347-355
- Rai, P., Sobti, R., Singh, N., Kakkar, S. (2023). Regarding the effects of miniscrew-assisted and conventional rapid palatal expansion on the cranial and circummaxillary sutures. *Am J Orthod Dentofacial Orthop.* 164 (4), 460-461.
- Sehrawat, S., Grewal, H., Bhutiani, N. (2023). Regarding comparative cone-beam computed tomographic evaluation of maxillary incisor intrusion and associated root resorption. *Am J Orthod Dentofacial Orthop.* 163 (6), 739
- Tripathi, T., Ganesh, G., Singh, N., Rai, P. (2023). Serum biomarkers associated with radiographic skeletal maturity indicators: A systematic review and meta-analysis. *J Orthod.* 50 (2) , 127-147.
- Tyagi, R., Kalra, N., Khatri, A., Goyal, T., Yangdol, P., Sabherwal, P. (2023). A Rare Case of Autoimmune Polyendocrinopathy-candidiasis-ectodermal Dystrophy Syndrome: Dental Perspective on Diagnosis and Management. *Int J Clin Pediatr Dent.* 16 (1):139-146
- Yangdol, P., Kalra, N., Tyagi, R., Khatri, A., Sabherwal, P., Goyal, T. (2023). Three-dimensional Printing Technology: Patient-friendly and Time-saving Approach for Space Management in an Autistic Child in COVID-19 Times. *Int J Clin Pediatr Dent* 16 (Sup 3), 321-326.
- UGC*
- Khatri, A., Kalra, N., Tyagi, R., Khandelwal, D., Kulkarni, S.V., Garg, N., Kulood, K. (2023). Dental Considerations and Treatment Approaches in West Syndrome—Infantile Spasms: A Case Report. *J South Asian Assoc Pediatr Dent* 6 (3), 139-142.
- Khandelwal, D., Kumar, D., Kalra, N., Khatri, A., Tyagi, R. (2023) Caries Prevalence, Oral Health Knowledge, and Treatment Needs among 6–12-year-old School Going Children of East Delhi: A Cross-sectional Study. *World Journal of Dentistry*, 14, 671–676.
- Tyagi, R., Kalra, N., Khatri, A., Kulood, K., Sabherwal, P., et al. (2023) Modified zirconia bonded M bridge for prosthetic rehabilitation of missing anterior tooth in a young adolescent. *International Journal of Oral Health Sciences* 13 (1), 51-54
- Yangdol, P., Kalra, N., Tyagi, R., Khatri, A., Goyal, T.(2024) Change in the trend of diet and lifestyle

patterns among Indian children during COVID-19 confinement: a cross-sectional study. *International Journal Of Contemporary Pediatrics*.11 (3), 303-314.

Web of Science

Khandelwal, D., Kalra, N., Tyagi, R., Khatri, A., Yangdol, P. (2023) Prevalence of dental trauma in permanent anterior teeth in 6-12-year-old children in school going children of East Delhi. *International Journal Of Contemporary Pediatrics*.10 (12) 1832-1836

Khandelwal, D., Kalra, N., Tyagi, R., Khatri, A., Yangdol, P., Sharma, A. (2023) Reliability of anxiety scales and physiological parameters as measure of anxiety in dental patients. , [*Journal of Advanced Medical and Dental Sciences Research*](#), 11 (6), 106-110

Seminar/Conference Presentations

Dr. Neha presented a paper as Invited Rising Star Speaker at 57th Indian Orthodontic Conference at Meerut from 15th -17th September,2023.

Paper presented by Dr Deepak Khandelwal on Artificial intelligence Pediatric Dentistry” at PEDODALES-20th ISPPD National PG Convention organized by ISPPD on 23-25th Feb, 2024.

Extension and Outreach Activities

School Dental Health Programs Jail Prisoners regular dental check-up and management Contribution to Pulse Polio Abhiyaan from time to time.

Oral Health awareness activities for underprivileged children.

Faculty Strength

Senior Professor/Professor/Director: 3

Associate Professor: 1

Assistant Professor: 2

DERMATOLOGY, VENEREOLOGY & LEPROSY (LHMC)

Major Activities and Achievements

The Department had conducted a series of webinars and CMEs on various topics during the year 2023-2024. Some of these include CME on World Lupus Day on 10th May 2023, CME on World atopic day on 14th September 2023, CME on World Leprosy Day 30th January 2024.

Honours/Distinctions

Dr Vibhu Mendiratta was awarded VN Sehgal award by IADVL for special achievements in Dermatology in 2023 in the National Conference of Dermatology at Mumbai.

Dr Rashmi Sarkar was elected as Regional Director of International League of Dermatological Societies (ILDS) of South Asia, Middle East and Africa in 2023.

Publications

Mendiratta, V., Meena, A.K., Verma, B., Jain, A. (2024). Comorbidities in Paediatric Psoriasis: Experience from a Tertiary Care Centre. *Indian J Dermatol* 5 (68), 492-496

Meena , A.K., Mendiratta, V., Goyal, R., Bisherwal, K., Yadav, V., Prasad, V. (2023). Biochemical and hormonal abnormalities in adult female acne. *J Cosmet Dermatol.* 4 (22), 1392-1399

Mendiratta, V., Meena, A.K. (2024). Clinical and epidemiological profile of lichen striatus in Children- Experience from a tertiary care hospital. *Pediatr Dermatol* 4 (40) 642-646

Verma, D., Mendiratta, V., Garg, T., Tripathi, S., Tomer, S.(2024). Assessment of Cardiovascular Risk Factors in Women Having Female Pattern Hair Loss. *Indian journal of dermatology* 4 (69), 7-15

Garg, T., Samudrala, S., Kumar, P., Chander, R., Sharma, S.(2023). Cutaneous Manifestations in Celiac Disease: An Observational Study. *Indian journal of pediatric dermatology* 3 (24), 223-227

Seminars Organized

Dr Rashmi Sarkar, Dr Surabhi Sinha, Asian Society of Pediatric Dermatology (ASPD) in conjunction with the Indian Women's Dermatologic Association (IWDA), 19-11-2023

Conferences Organized

World Lupus Day, LHMC, 10-05-2023

Faculty Strength

Senior Professor/Professor/Director: 4

Assistant Professor: 2

DERMATOLOGY, VENEREOLOGY & LEPROSY (MAMC)

Achievement:

The department successfully conducted MD Dermatology exam in May, 2023. The department successfully conducted Diploma Dermatology exam in January, 2024.

Honours

Dr Krishna Deb Barman was awarded by IADV to attend 2nd International Training Program held in China.

Publications

Yadav, D., Singh, S., Dhawan, B., Sood, S., Gupta, S. (2024) Authors' reply. *Indian J Dermatol Venereol Leprol.* 90(2),258-259.

Yenamandra, V.K., Khute, P., Yadav, D., Narayanan, A., Tekumalla, S, V. S, Kabra, S.K., Sharma, V.K., Sethuraman, G. (2023) Oral Propranolol Therapy for Infantile Hemangioma: Long-term Follow-up. *Indian J Pediatr.* 90(9), 937-939.

Yadav, D., Singh, S., Dhawan, B., Sood, S., Gupta, S. (2023) Laboratory detection of bacterial pathogens and clinical and laboratory response of syndromic management in patients with cervical discharge: A retrospective study. *Indian J Dermatol Venereol Leprol.* 89(3), 431-435.

Antakanavar, G. M., Agrawal, I., Sahoo, B., Relhan, V. (2024) Diffuse Cutaneous Bullous Mastocytosis in a Neonate. *Indian Dermatology Online Journal* 15(2), 348-350,

Agrawal, I., Pal, V., Sahoo, B. (2023) Familial hypercholesterolemia. *CosmoDerma* 3,161.

Sahni, K., Dev, T., Gupta, S., Mehta, N.(2023) Heat from operation theatre light as a replacement for incubation in cellular grafting techniques for vitiligo. *CosmoDerma* 3, 184

Training course/Conferences/Workshops organized:

CME Program for MD students, on 12th and 15th of December 2023 (in collaboration with Regional STI Reference Research and Training Centre (RSRRTC), MAMC).

Post graduate Diploma Course in Medicine (PGDM) (in collaboration with Community medicine)

Occupational dermatosis

Geriatric dermatosis

Diplomate of National Board (DNB) examination 2024 conducted in Dermatology Department at MAMC in March 2024.

Conferences/Workshops/Symposiums attended:

Dr Krishna Deb Barman

Mid-cuticon- Delhi State Branch 2023

International Training Program for Leprosy in China

WODECON 2023

Dr Deepika Yadav

CME Program by Regional STI Reference Research and Training Centre

Annual Cuticon (DSB) panel discussion

Dr Tanvi Dev

Presentation in FUE Asia 2023 conference, Invited lecture on hair neutraceuticals and Panel discussion on Shampoos and conditioners

AIIMS Moh's Surgery International Conference- "From Blade to Light Conference" Moderated sessions on Live Moh's Surgery

Talk show for public awareness: Leukoderma: on Doordarshan

Dr Gaby and Dr Aditi got 2nd prize in quiz in Codficon 2023, 3rd prize in quiz in DSI 2023, 3rd prize in Delhi Cuticon quiz 2023

Representation on expert Committee/Bodies

Dr Krishna Deb Barman

Central Drugs Standard Control Organisation (CDSCO)

Minimum standard for cosmetology clinic

Member of National program climate change and Human health

Faculty Strength:

Senior Professor/Professor/Director: 1

Assistant Professor: 3

DERMATOLOGY AND STD (UCMS)

Major activities and Achievements:

The Department of Dermatology organized a Multidisciplinary Inter-departmental Educational Activity (IDEAS) through an enlightening presentation by Dr. Chander Grover on the rare disease presentation of Juvenile Xanthogranuloma on 1st August 2023, enriching attendees' understanding of rare dermatological conditions. The Department facilitated Vittartha PG, organized by IADVL Delhi State Branch on 19th October 2023, where UCMS postgraduates presented challenging dermatological cases, fostering collaboration and knowledge exchange nationwide. The Department co-organized a Pre-Conference Satellite Workshop (WS-5) with the Department of Microbiology on 2nd November 2023, as part of the 15th Annual Conference of IAMM Delhi Chapter, providing valuable interdisciplinary insights at the intersection of dermatology and microbiology. The Department hosted the Cadaveric Nail Surgery Workshop on 29th December 2023, with Dr Archana Singal and Dr Chander Grover, to equip residents from the Departments of Dermatology and Anatomy with practical skills in nail anatomy and surgical techniques, ensuring optimal patient care.

Honours and Distinctions

Dr. Archana Singal received Prof. T.C. Saikia Oration North East State Branches on Cutaneous TB in Dibrugarh, Assam in Nov 2023

Dr. Archana Singal was appointed as Editor-in-chief of The Indian Journal of Dermatology, Venereology and Leprology (IJDVL)

Dr. Archana Singal was appointed as Associate Section Editor (Global Health and Equity)- British Journal of Dermatology (BJD).

Dr. Deepika Pandhi was appointed as Chairperson of the Indian Association of Dermatology, Venereology and Leprology (IADVL) Dermatology Education Taskforce (2023-2024)

Dr. Deepika Pandhi was appointed as President elect of Indian Association of Dermatology, Venereology and Leprology (IADVL) Delhi State Branch 2024-2025

Dr. Deepika Pandhi was appointed as Editor of Indian Journal of Skin Allergy

Dr. Chander Grover was appointed as Vice President, Nail Society of India (2023-24)

Publications

Mahajan, K., Grover, C., Relhan, V., Tahiliani, S., Singal, A., et al. (2024) Nail Society of India recommendations for treatment of onychomycosis in special population groups. *Indian Dermatol Online J* 15,196-204.

Agrawal, S., Singal A., Grover, C., Das, S., Madhu, S. V. (2024) Clinico-Mycological Study of Onychomycosis in Indian Diabetic Patients. *Indian Dermatology Online Journal* 14(6), 807-813.

Bisherwal, K., Singal, A., Grover, C. (2023) Retrospective analysis of leprosy in elderly from India: observations and recommendations. *Leprosy Review* 94 (2),135-147.

Agrawal, S., Singal, A., Grover, C., Das, S., Arora, V.K., Madhu, S.V. (2023) Prevalence of onychomycosis in patients with diabetes mellitus: A cross-sectional study from a tertiary care hospital in North India. *Indian J Dermatol Venereol Leprol* 1, 1-8.

Yadav S, Pandhi D*, Grover C, Das S. Dermoscopic findings and assessment of treatment response in patients with tinea incognito: a pilot study. *Indian Dermatol Online J* 2024; 15: 205-12

Sil, A., Das, A., Patra, A.C., Kumar, R., Pandhi, D., et al. (2023) Impact of COVID-19 Pandemic on Dermatology Teaching Program in India: A Survey on the Faculty and Residents' Perspective. *Indian Dermatol Online J* 14, 643-52

Grover, A., Bhargava, B., Srivastava, S., Sharma, L.K., Cherian, J.J., et al. (2023) [Developing Standard Treatment Workflows-way to universal healthcare in India](#). *Front Public Health*. 11, 1178160.

Yadav, S., Pandhi, D., Grover, C., Das, S. (2024) Dermoscopic findings and assessment of treatment response in patients with tinea incognito: A pilot study. *Indian Dermatol Online J* 15, 205-12.

Gaurav, V., Tyagi, M., Grover, C., Das, S. (2024) Ungual Scabies: A Case Report and Review of Literature. *Skin Appendage Disord*. 10 (1), 60-68.

Grover, C., Gupta, P., Gupta, C., Nambiyar, K., Goel, S. (2023) Fibro-Osseous Pseudotumor of the Digit: A Case Report and Review of Literature. *Skin Appendage Disord*. 9 (6), 470-476.

Gaurav, V., Mondal, A., Grover, C., Gupta, S. (2024) Y-shaped anchor for nail dressing stability. *J Am Acad Dermatol*. 90(5), e159-e161.

Dixit, S., Jain, P., Jain, S., Gupta, R., Grover, C., Sharma, S. (2023) Introducing a novel histopathological scoring system to assess disease activity and chronicity in cutaneous lichen planus: A proposal. *J Cutan Pathol*. 50 (10), 922–928.

Iorizzo, M., Gioia, Di Chiacchio, N., Di Chiacchio, N., Grover, C., et al. (2023) Intralesional steroid injections for inflammatory nail dystrophies in the pediatric population. *Pediatr Dermatol*. 40 (4), 759-761.

Pal, V., Relhan, V., Sahoo, B. (2023) A comparative observational study of nailfold capillaroscopy in psoriatic patients and healthy controls using a USB videodermatoscope. *Australas J Dermatol.* 64 (4), e400-e402

Abstract publication in conference proceedings

Sonia Agrawal, Archana Singal, Chander Grover, Shukla Das, Vinod Arora, S V Madhu. Onychomycosis (OM) in Indian diabetic patients; Prevalence, risk factors and clinico-etiological profile. Session code: PR04 | Session title: “Smorgasbord” | Day: Friday, 7th July | Time: 14:30-15:30 | Room: Level 6 - Hall 602.

Bharti Aggarwal, V. Gandhi, A Singal, Amitesh Aggarwal. To evaluate and compare nail changes in leprosy and diabetic neuropathy on clinical examination, onychoscopy and nail fold capillaroscopy. Session code: RS | Session title: Dermoscopy | Day: Wednesday, 5th July | Time: 9:00-10:50 | Room: Level 3 - Room 331

Pratibha Gupta, Deepika Pandhi, Chander Grover. Diagnostic concordance and interobserver variability between tele-dermatology (store-and forward) and in-person evaluation for in-patient dermatology consultations. Session code: RS03 | Session title: “Psychodermatology / Tele dermatology” | Day: Tuesday, 4th July | Time: 16:00-17:20 | Room: Level 3 - Room 330.

Chander Grover. Nail diseases: are we doing enough? Session code: PL05 | Session title: “Plenary Session 5” | Day: Saturday, 8th July | Time: 12:10-12:30 | Room: Level 3 - Summit 1

Chander Grover. Nail matrix diagnostic procedure: diagnostic excision of longitudinal melanonychia. Session code: CO HD18 | Session title: “Nail surgery” | Day: Wednesday, 5th July | Time: 15:30-15:50 | Room: Pacific 3.

Chapters in books

Pandhi D, Kannoja H. Vitiligo. In “*India Point Of Care*” 2nd Edn 2024. Ed Marfatia YM. Published by Elsevier Publishers, Gurgaon, Haryana.

Pandhi D, Gaurav V. Atopic Dermatitis. In “*India Point Of Care*” 2nd Edn 2024. Ed Marfatia YM. Published by Elsevier Publishers, Gurgaon, Haryana.

Gaurav V, Kyle A, Pandhi D. Paraneoplastic Pemphigus (Paraneoplastic Autoimmune Multiorgan Syndrome). In Textbook of Pemphigus and Other Autoimmune Bullous Diseases, 1st Edn, 2024. Jaypee Brothers Medical Publishers Pvt. Ltd. New Delhi

Kharghoria G, Grover C, Sharma S. Nail Disorders. In: *IADVL Textbook of Dermatopathology*. Ed Ramam M, Khandpur S, Gupta V, Bhari N. Published by Jaypee Brothers Medical Publishers, 2023. ISBN, pp 246-262.

Gaurav V, Grover C. Neonatal pustular eruption: a diagnostic conundrum! In: *Puzzling cases in pediatric dermatology* Vol 2. Ed Thappa DM. Published by Tree Life Media 2023. ISBN 978-93-83989-74-4, pp 38-47.

Books

Singal A, Grover C. 2nd edition Superficial Fungal Infections, 2024.

Pandhi D ed. Trending Topics Dermatology. ISBN: 978-81-963588-0-8. Knowledge Bridge Private Limited. Mumbai, India, 2024.

Research Grant

ICMR, Dr Deepika Pandhi, Diagnostic and therapeutic validation of dermatology

standard treatment workflow in an Urban health and training center in Delhi, Rs. 22,81,828.

MRU, Dr Deepika Pandhi , Pharmacogenomics markers of Glucocorticoid responsiveness in Pemphigus vulgaris, Rs. 1,00,000.

Seminars organized:

The Department of Dermatology organized a Multidisciplinary Inter-departmental Educational Activity (IDEAS) through an enlightening presentation by Dr. Chander Grover on the rare disease presentation of Juvenile Xanthogranuloma on 1st August 2023, enriching attendees' understanding of rare dermatological conditions.

The Department facilitated Vittartha PG, organized by IADVL Delhi State Branch on 19th October 2023, where UCMS postgraduates presented challenging dermatological cases, fostering collaboration and knowledge exchange nationwide.

The Department organized Dr. Vamsi K Yenamandra's guest lecture on Translational Genomics for Genodermatoses, held on 17th November 2023 at UCMS, where residents gained insights into the application of genetic analysis in diagnosing and managing various genodermatoses.

Conference Organized

Co-Organized a Pre-Conference Satellite Workshop (WS-5) with the department of Microbiology, held under the aegis of 15th Annual Conference of Indian Association of Medical Microbiologists (IAMM) Delhi Chapter, on 2nd November, 2023 at UCMS, Delhi.

The Department hosted the Cadaveric Nail Surgery Workshop on 29th December 2023, equipping residents from the Departments of Dermatology and Anatomy with practical skills in nail anatomy and surgical techniques, ensuring optimal patient care.

Seminar/ Conferences Presentations

Dr. Archana Singal was invited as Co-chair and speaker on, '**Pediatric Nail disorders**' in the 'NAIL and nail Surgery SYMPOSIUM' during 25th World Congress of Dermatology, held at Singapore on 2nd -7th July 2023.

Dr. Archana Singal was invited Co-chair and speaker on, '**Leprosy in the Indian subcontinent: epidemiology, management and challenges**' in the Mycobacterium Lepae II SYMPOSIUM during 25th World Congress of Dermatology, held at Singapore on 2nd -7th July 2023.

Dr. Archana Singal delivered a TED Talk on '**How Mentorship can accelerate access to health care in dermatology in underserved community**' for GLODERM, The International Alliance for Global Health Dermatology.

Dr. Deepika Pandhi was invited panelist for panel on “Atopic Dermatitis” at the AAD-India Conclave at Delhi from 29th -30th October 2023

Dr. Deepika Pandhi was invited as moderator for panel discussion on Tacrolimus in Atopic Dermatitis at the Society for Eczema Studies (SES) International speaker program and hybrid conference at Delhi on 15th October 2023.

Dr. Deepika Pandhi was invited a Panelist for a National round table discussion on Accessibility, Digitisation and Capacity Building of Medical Education in India at the Business Council for international understanding and American embassy at Delhi on 12th October 2023.

Dr. Deepika Pandhi was invited Co- Chairperson and speaker for session on MCTD and for a talk on MCTD- Is it a separate entity? at the 25th World Congress of Dermatology at Singapore from 3- 8th July 2023.

Dr Chander Grover was invited Keynote Speaker (Plenary Session) on “Nail Disorders: Are we doing enough?” during the proceedings of the 25th World Congress of Dermatology, organized by ILDS (International League of Dermatological Societies) on 8th of July, 2023, at Suntec Convention Centre, Singapore.

Dr Chander Grover was invited Faculty on “**Nail matrix diagnostic procedure: Diagnostic excision of longitudinal melanonychia**” during (CO HD18) **Nail surgery Course** during the proceedings of the **25th World Congress of Dermatology**, organized by **ILDS (International League of Dermatological Societies)** on 5th of July, 2023, at Suntec Convention Centre, Singapore.

Dr Chander Grover was invited Faculty on “**How to improve cosmetic appearance of nails: Chemical Peels**” during the proceedings of 27th Annual Meeting of Council for Nail Disorders, USA organized on 3rd-4th June 2023, virtually.

Inter-institutional Collaboration:

Dr Deepika Pandhi - Research Studies on Demographic and clinical profile of atopic dermatitis in Indian children- with Society of Eczema Studies at 42 centres in India

Students under exchange program:

Dr Chinmai Chikkalgai, MD, FRGUHS (Dermatosurgery), Mandya Institute of Medical Sciences, Mandya, Karnataka visited for one week as observer under Dr. Chander Grover.

Extension and Outreach activities:

The Department organized a Leprosy Day oath ceremony on 30th Jan 2024, reaffirming its commitment to combat leprosy and raise awareness about the disease.

Skin Health Day, observed on Aug 16th 2023, aimed to promote skin health through educational seminars and free skin screenings.

Vitiligo Day, observed on 26th June 2023, focused on raising awareness about vitiligo and dispelling myths surrounding the condition.

Geriatric Day addressed the dermatological needs of elderly patients through educational sessions and discussions on skincare for aging skin.

Organized activities to mark the World AIDS day on 1st December 2024, with a theme of “Let Communities Lead”, at University College of Medical Sciences and GTBH, Delhi. Carried out a group patient education interactive session in the Dermatology and STD OPD, focusing on HIV, how it spreads and its prevention, availability of free testing and treatment options in hospitals. Queries from patients attending the Dermatology OPD were answered and was followed by candle March in the hospital.

Faculty strength: 5

Senior Professor/Professor/Director: 4

Assistant Professor: 1

ENDOCRINOLOGY (UCMS)

Major Activities and Achievements

The first batch of DM Endocrinology course at UCMS passed their final university exam this year. The department is performing neck ultrasound and ultrasound guided FNAC services for thyroid nodules in collaboration with Department of Pathology. A multidisciplinary clinicopathology conference is also held once every 2 months with departments of ENT and pathology to improve diagnosis and management of thyroid neoplasms.

Honours/Distinctions

Dr SV Madhu delivered the World India Diabetes Foundation (WIDF), USA Award Lecture 2023 on “Adipocyte dysfunction, energy handling and diabetes risk in Asian Indians” at the 23rd International Symposium on Diabetes (IDSI 2024 Symposium) held at Mumbai on January 6th and 7th, 2024.

Publications

Panigrahi, A., Sharma, A. K., Thakor, M., Yadav, S., Mohanty, S. S., Singh, P., Dhikav, V., Huda, R. K., Parmar, M. C., Madhu, S. V., & Moosan, H. (2023) Implementation research on diabetes in India ; A systematic review. *Clinical Epidemiology and Global Health* 24, (1014-15)

Kalra, S., & Raizada, N. (2024) Dyslipidemia in diabetes. *Indian Heart Journal* 76, S80-82

Dutta, D., Nagendra, L., Raizada, N., Bhattacharya, S., Sharma, M. (2023) Verapamil improves One-Year C-Peptide Levels in Recent Onset Type-1 Diabetes: A Meta-Analysis. *Indian Journal of Endocrinology and Metabolism*, 27 (3), 192-20

Srivastava, H., Mathe, P., Mondal, N., Srivastava, S., Madhu, S. V., & Agarwal, R. (2023) An Evaluation of the Second Trimester Thyroid Function Test in Gestational Diabetes Mellitus: A Case-Control Study. *Cureus*, 15 (7), e41858

Sarkar, K., Kashyap, B., JHamb, R., & Madhu, S. V. (2023) Assessing Pulmonary Tuberculosis Using

Bandim Tuberculosis and Karnofsky Performance Scale Scores with Serum Adenosine Deaminase Levels. *Korean Journal of Family Medicine*, 44 (4), 234-239

Nonglait, P. L., Madhu, S. V., Raizada, N., Aggarwal, A., Ahmed, R., & Aslam, M. (2023) High level of psychological stress in COVID-19 recovered individuals: *Role of copeptin as a potential biomarker*, 14

Madhu, S. V., & Raizada, N. (2023) Double Trouble. *Indian Journal of Endocrinology and Metabolism* 27 (3), 189–191

Gupta, S. V., Kaur, N., & Madhu, S. V. (2023) Hormonal profile of survivors of breast cancer with fatigue: A pilot study. *The Indian Journal of Medical Research* 157, (4), 358–362

Goel, V., Raizada, A., Aggarwal, A., Madhu, S. V., Kar, R., Agrawal, A., Mahla, V., & Goel, A. (2024) Long-Term Persistence of COVID-Induced Hyperglycemia: A Cohort Study. *The American Journal of Tropical Medicine and Hygiene*, 110 (3), 512–517

Dabas, H., Sarin, J., & Madhu, S. V. (2023) Insulin Adherence in Adolescents with Type 1 Diabetes Mellitus. *Indian Journal of Endocrinology and Metabolism*, 27 (5), 394–397

Anjana, R. M., Unnikrishnan, R., Deepa, M., Pradeepa, R., Tandon, N., Das, A. K., Joshi, S., Bajaj, S., Jabbar, P. K., Das, H. K., Kumar, A., Dhandhan, V. K., Bhansali, A., Rao, P. V., Desai, A., Kalra, S., Gupta, A., Lakshmy, R., Madhu, S. V., ... ICMR-INDIAB Collaborative Study Group (2023) Metabolic non-communicable disease health report of India: The ICMR-INDIAB national cross-sectional study (ICMR-INDIAB-17). *The Lancet. Diabetes & Endocrinology*, 11 (7), 474–489

Almeida, E. A., Mehndiratta, M., Madhu, S. V., Kar, R. Puri, D. (2023) PINK1 and oxidative stress in lean and obese patients with type 2 diabetes mellitus. *Journal of Diabetes and Its Complications*, 37

Agrawal, S., Singal, A., Grover, C., Das, S., Arora, V. K., & Madhu, S. V. (2023) Prevalence of onychomycosis in patients with diabetes mellitus: A cross-sectional study from a tertiary care hospital in North India. *Indian Journal of Dermatology, Venereology and Leprology*, 89 (5), 710–717

Agrawal, S., Singal, A., Grover, C., Das, S., & Madhu, S. V. (2023) Clinico-Mycological Study of Onychomycosis in Indian Diabetic Patients. *Indian Dermatology Online Journal*, 14 (6), 807–813

Research Projects

ICMR, Dr SV Madhu, ICMR-YDR registry Cohort Phase III, 129.0

ICMR, Dr Nishant Raizada, Identification of gene-environment and polygenic risk score-environment interactions among Indians that determine the risk of prediabetes and type 2 diabetes mellitus , 696.0

ICMR, Dr SV Madhu, ICMR Diabetes Cohort Study , 217.0

Seminars Organized

Dr Alok Pathak, , Program-Director of Surgical Oncology, Max Rady College of Medicine, University of Manitoba, Canada, UCMS, Predicting Outcome of Thyroid Cancer, 12-02-0204

Seminar/Conference Presentations

Dr S V Madhu -. Invited talk on “Adipose tissue handling of high energy intake and risk of type 2 Diabetes

Mellitus in Indians” and “Writing Methodology” at the 2nd RSSDI Research Retreat held at Hyderabad from 8th – 9th April, 2023.

Dr S V Madhu - Invited talk on “Clinical application of molecular testing in thyroid nodules” at Annual Conference of Indian Thyroid Society (ITSCON 2023) held at Kochi from May 26th – 28th , 2023.

Dr Nishant Raizada - Lecture on “Management of Primary Ovarian Insufficiency at ESI Satellite Symposium held at Noor Mahal Palace, Karnal on 18 June 2023

Other Inter-Institutional Collaboration

The ICMR sponsored project “Identification of gene-environment and polygenic risk score-environment interactions among Indians that determine the risk of prediabetes and type 2 diabetes mellitus “is in collaboration with IIT Jodhpur, India

Faculty Strength

Senior Professor/Professor/Director:	01
Associate Professor:	01
Assistant Professor:	01

ENT (MAMC)

Workshop organised by the Department

13th ENT UPDATE 2023 was organized by the department on 07 th to 9 th December 2023.

Audiology Update 2023 was organized by the department on 04 th November, 2023.

Radiology Update 2023 was organised by the department on 08 th October, 2023

Faculty Strength:

Professor of Excellence/Professor/Director:	4
Assistant Professor:	3

Publication

Kumar, J., Daga, R., Pradhan, G., Meher, R. (2023) Sinonasal Inflammation or Neoplasm: Raise the Red Flags!—A Pictorial Review. *Indian Journal of Radiology and Imaging*, 33 (4), 522-531.

Goel, R., Ojha, S., Gaonker, T., Shah, S., Meher, R., Arya, D., Khanam, S., Kumar, S. (2023) Outcomes of 8 × 8 mm osteotomy in powered external dacryocystorhinostomy. *Indian J Ophthalmol.*, 71(6), 2569-2574.

Singh, D. I., Gopal, D. A., Sharma, D. R., Negi, D. S., Rastogi, D. S., Mandal, D. S., Singh, D. R., & Kumar, D. R. (2023). Mucormycosis - An Adamant Parasitic Fungal Infection Requiring Multiple Surgeries. *International Journal of Medical Science and Clinical Research Studies*, 3(06), 1203–1212.

Chandel, S., Singh, A., Harit, A., Bose, D.K., Tarique, N., Gupta, N. (2023) “Factors Leading to Conductive Hearing Loss Among Children Living in Delhi Slum Areas”. *Journal of Scientific Research and Reports* 29 (8),1-8.

Singh, I., Gopal, A., Juneja, R., Singh, K., Kumar J. et al. (2023) Laryngeal schwannoma: A rare cause of hoarseness. *Otolaryngology Case Reports*, 27, 100529,

FORENSIC MEDICINE & TOXICOLOGY (UCMS)

Major Activities and Achievements

The department is engaged in both UG and PG teaching and training while continuously providing medico-legal services to the large population of eastern part of Delhi. The department is also engaged in training of official of other organisations like in-service medical officers, police officials and other judicial officers. The department and its faculty members are also actively engaged in research activity that is evidenced by the number of publications both in national and international journals of repute.

Honors & Distinction:

Dr Satish Kumar Verma was awarded with Distinguished Research Award by INSO, April 2023.

Dr Satish Kumar Verma was awarded with “Vishishth Chikitsa Ratan” by Delhi Medical Association, Delhi on the occasion of Doctor’s Day, 2023.

Dr Satish Kumar Verma was awarded with, “Chikitsa Guru Samman” by Indian Medical Association, East Delhi on the occasion of Teachers Day, 2023.

Publication (Scopus/ PubMed Index):

Verma, S.K., Verma, A., Malia, P., Chauhan, M. (2023) Suicide hangings during pre-Covid-19 and Covid-19-Myths debunked for the lower-middle income group counties. *Asian J Psychiatry* 79, 103349.

Sonwani, N.S., Thakur, K.S., Ateriya, N., Verma, S. (2023) An Unusual Origin of the Left Vertebral Artery: A Case Report. *Cureus*, 15(8), e43824.

Sonwani, N.S., Thakur, K.S., Ateriya, N., Verma, S. (2023) Acute Haemorrhagic Pancreatitis presenting as Sudden Death. *J Ind Acad Forensic Med*, 45(2),190-2.

Harsh., Kumar, A., Kohli, A., Kumar, R. (2024) Estimation of bone age by radiological examination of the medial end of the clavicle bone. *Int J Sci Res.* ,13 (01)

Kumar, T., Kumar, A., Harsh., Kohli, A., Kumar, R. (2024) Pattern of skull fractures and associated intracranial hemorrhages in fatal road traffic accidents in Delhi. *Int J Sci Res.*, 13 (01)

Saha, R., Kaushik, S., Kumar, A., Chaudhary, S. (2023) The under-utilization of Forensic Microbiology: A narrative review. *Ann Natl Acad Med Sci*, 59(03),: 139-146

Conferences/ seminars / Workshop organized

Workshop on Age Estimation, April 2023

20th Annual National conference of ICFMT (**ICFMTCOM-23**), November, 2023.

Inter-Institutional Collaboration:

The department faculty is involved as guest faculty/ resource persons to various national level organisations like MNC, NBEMS, NFSU, CBI Academy, Delhi Judicial Academy, Advanced Training Institute, Uttaranchal, NIHFWS etc.

Extension and outreach activities

Scientist's photo gallery

Oral autopsy training

Number of M.D/M.S/Ph.D awarded:

5 (Five)

Any other significant information:

The department conducted **2203** medico-legal autopsy and more than 100 cases of Age estimation during the year 2023-24. The department also provided expert/subsequent opinion and court evidences in a large number of cases. During the same period various faculty members acted as experts on various selection committees, delivered guest lectures and appointed/continued as members of the editorial boards in different scientific journals of repute. Faculty members of the department worked in the capacity of chairman/members in large number of review/ post-mortem boards constituted by different government agencies like Delhi government, CBI, etc. Consistently the department is working for the enhancement of knowledge to serve the society in a more efficient way.

Faculty Strength

Senior Professor/Professor/Director: 04

Assistant Professor: 02

MEDICAL BIO-CHEMISTRY (UCMS)

Major Activities and Achievements

The Department has made significant progress in undergraduate and post graduate training as well as research. The department participated in "In-service Training in Medical Laboratory Technology " Programme and training of BSc MLT for colleges affiliated to DU. The Department Manages Clinical Biochemistry Laboratory and a 24 hour Emergency Laboratory Services.

Publications

- Almeida, E.A., Mehndiratta, M., Madhu, S.V., Kar, R., Puri, D. (2023) PINK1 and oxidative stress in Lean and Obese Patients with Type 2 Diabetes Mellitus. *Journal of Diabetes and its Complications*. 38 (8), 108542
- Das, S., Meena, R.K., Shah, D., Almeida, E.A., Mehndiratta, M., Gupta, P. (2023) Children with severe acute malnutrition have high rates of bone resorption: A cross-sectional comparative study. *Nutrition Research*, 117, 66-72
- Salhotra, R., Kamal, V., Tyagi, A., Mehndiratta, M., Rautela, R.S., Almeida, E.A. (2023) Suppression of perioperative stress response in elective abdominal surgery: A randomized comparison between dexmedetomidine and epidural block. *Journal of Anaesthesiology Clinical Pharmacology* 39 (3), 397-403
- Upadhyay, N., Almeida, E.A., Singh, A., Madhu, S.V., Puri, D. Mehndiratta, M., (2024) Evaluation of CRP/ Albumin Ratio in Polycystic Ovarian Syndrome. *The Journal of Obstetrics and Gynecology of India*, 74(2),:165-169
- Tripathi, C.B., Jha, P.K., Agarwal, R. (2024) Method comparison: Statistical measurement correlation or agreement-most appropriate tool? *Asian Journal of Medical Sciences*, 15 (1), 262-68
- Ansari, S., Bhadra, J., Ahirwar, A.K., Gupta J. (2023) Correlation analysis of HbA1c versus random, fasting, and postprandial glucose levels as predictors of glycemic control in type 2 diabetes patients. *Asian Journal of Medical Sciences*, 14 (4), 37-43
- Ansari, S., Mudassir, M., Vijayalekshmi, B., Chattopadhyay, P. (2023) Targeting CXCR4-expressing Cancer Cells with Avidin-poly (lactic-co-glycolic acid) Nanoparticle Surface Modified with Biotinylated DV1 Peptide. *International Journal of Applied and Basic Medical Research*, 13 (2), 106-112.
- Garg, S., Gupta, P., Wahi, S., Mehndiratta, M., Madhu, S.V., Almeida, E.A., Kar, R. (2024) Expression of hTERT and Lp-PLA (2) genes is increased in primary hypothyroidism. *Aspects of Molecular Medicine* 3, 100040
- Kumari, M., Jha, P.K., Khan, M.A., Saifi, A., Arora, V.K., Halder, S., Shamsi, Y., & Ahmed, R.S. (2023) Protective effects of Majun Brahmi on aluminum-induced cognitive impairment in rats: Biochemical and behavioral changes. *Asian Journal of Medical Sciences*, 8 (14), 42-49
- Singla, A., Thakur, P., Kar, R., Gogoi, P., Jain, S. (2023) Hematological Markers: Testing a new diagnostic modality for Intrahepatic Cholestasis of pregnancy. *Medical Research Archives*, 11 (8), 4149
- Shrivastava, J., Narang, M., Ahmed, R.S., Das, S., & Gomber, S. (2023) Serological Response to COVID-19 and Its Association With Measles-Rubella (MR)-Containing Vaccines. *Cureus*, 15 (5), e39671
- Singh, N., Mudassir, M., Ansari, S., Chosdol, K., Sinha, S., Chattopadhyay, P. (2023) Poly (lactic-co-glycolic) acid nanoparticles localize in vesicles after diffusing into cells and are retained by intracellular traffic modulators. *Nanomedicine*, 18 (26), 1907-19
- Batra, P., Singh, P., Ahmed, R.S., & Harit, D. (2023) Serum Vitamin D status in full term neonates with severe perinatal depression. *Brazilian Journal of Nephrology*, 16 (2), 257–264

Research Projects

ICMR (MRU, UCMS), Dr. Shiba Ansari, “PNPLA3 gene polymorphism, platelet indices and

adipocytokines as markers of disease progression in non-alcoholic fatty liver disease.”, 2 lakh.

Seminar/Conference Presentations

Dr. Seema Garg gave an Invited lecture on “Ensuring quality control in clinical laboratory” in CME organised by Dept of Biochemistry, SPMC, Bikaner Rajasthan under Aegis of AMBI, 28 April, 2023

Dr. Rajarshi Kar was speaker on topic “Current Techniques in Molecular Diagnostics” in CME – “Decoding genes – The Journey continues...” held at Dayanand Medical College & Hospital, Ludhiana on 18th April 2023.

Dr. Shiba Ansari was Guest Speaker at Medicamentum 2023; 2nd annual undergraduate medical conference of UCMS and GTBH held from 30th October to 1st November 2023.

Dr. Shiba Ansari was Invited Guest Speaker on topic “Raising the Bar for Genetic Surveillance: How Adept Are We” in 10th ACCLMPCON 2024 held from 3rd to 4th February 2024 at RNT Medical College, Udaipur.

Dr. Parul Gupta was Guest Speaker on “Role of proteomic Biomarkers in oral squamous Cell Cancer” at IDST, Modinagar on 13th September 2023.

Dr. Parul Gupta was Guest Speaker at Medicamentum 2023; 2nd annual undergraduate medical conference of UCMS and GTBH held from 30th October to 1st November 2023.

Extension and Outreach Activities

The Department participates in BSc, MLT training for the MLT colleges affiliated to Delhi University. The department also participates in teaching activities of BSc. Nursing. The department conducted NABL Training Program with the Department of Microbiology.

Faculty Strength

Senior Professor/Professor/Director: 4

Associate Professor: 1

Assistant Professor: 3

MEDICAL BIO-CHEMISTRY (LHMC)

Major Activities and Achievements

Department of Biochemistry, LHMC under the aegis of Delhi Chapter Indian Society for Atherosclerosis research conducted Annual C.M.E DC-ISAR 2023 “Holistic approach to the management of coronary artery disease”.

Establishing and running successfully 24X7 Central Biochemistry Lab in New IPD Block of Lady Hardinge Medical College. All Biochemistry lab instruments were integrated and interfaced with e-hospital server for LIS (lab information system) in Clinical Biochemistry Lab, SSKH.

Publications

Yadav, V., Mendiratta, V., Agrawal, A., Bisherwal, K., Singh, R., Meena, A.K. (2023) Interleukin Levels and Non-Alcoholic Fatty Liver Disease in Chronic Plaque Psoriasis: An Analytical Case Control Study. *Indian J Dermatol*, 68(4),377-384

Das, S., Chander, R., Garg, T., Mendiratta, V., Singh, R., Sanke, S. Cardiovascular risk markers in premature canities. *Indian J Dermatol Venereol Leprol*, 89, 221-5.

George, L.J., Singh, P., Aneja, S., Singh, R., Solanki, R., Seth, A. (2023) Insulin Resistance in children on Sodium Valproate – A hospital based cross-sectional study in Indian children. *Tropical Doctor*, 53(1), 91-96

Parvin, N., Kumar, V., Kumar, P. *et al.* (2023) Serum Inflammatory Markers in Children with Severe Acute Malnutrition with Systemic Infections: A Case–Control Study. *Indian J Pediatr*, 15 (1), 3

Patel, S., Singh, M., Garima, G., Kahlon, N. Correlation of Serum uric acid with Thyroid hormones in patients in a tertiary care hospital in Northern India. *Medica Innovatica*, 12 (1)

Bhatia, S., Patel, S., Garima, G., Singh, M., Nidhi, T., Chauhan, V., Sharma, S.B. (2023) Online vs Offline Pedagogy amidst COVID-19 Pandemic from the Perspective of First Year Medical Students, their Educators and Parents: A Cross-sectional Study. *National Journal of Laboratory Medicine*, 12(2), BO01-BO08

Patel, S., Garima, G., Bhatia, S., Thammineni, K..L., Nidhi, T., Pujani, M., Sharma, S.B. (2023) Effect of Good Clinical Laboratory Practices Quality Training on Knowledge, Attitude and Practice among Laboratory Professionals- Quasi Experimental Study. *Journal of Clinical and Diagnostic Research*, 17(9), BC05-BC09

Research Projects

ICMR, Dr Smita Tripathi, Effect of common variations in the PCSK9 gene on lipid-lowering effect of statins in North Indian population , 9.0 lakhs

Seminars Organized

Dr. Renu Malaviaya, DU, NIL, Time and Stress Management Workshop, 05-07-2023.

Dr. Ritu Singh, Dr. Manisha Kumar, Dr. Rajeev Goyal, LHMC,DU, Inspiron 2023: Genetic diagnosis and Case histories. Department of Biochemistry, 21-08-2023.

Conferences Organized

Annual C.M.E DC-ISAR 2023 Holistic approach to the management of coronary artery disease. Department of Biochemistry, 03-11-2023, DC-ISAR

Seminar/Conference Presentations

Dr. Ritu Singh was Chairperson in Recent advances in coagulation: an update. G B Pant PGIMER, New Delhi. 3rd April 2023, organised by AMBI.

Dr Rajeev Goyal was speaker Biochemistry Update 2023 Department of Biochemistry, SPMC, Bikaner, Rajasthan. 28th April 2023.

Dr Rajeev Goyal and Dr Mukesh Kumar Meena were Chairperson in AMBICON 2023, Mumbai 14-16 December 2023.

Faculty Strength

Senior Professor/Professor/Director:	04
Associate Professor:	02
Assistant Professor:	03
Ad-hoc:	01

MEDICAL BIO-CHEMISTRY (MAMC)

Major Activities and Achievements

The department Initiated 3 Elective posting program for the MBBS students as per NMC guidelines viz., Clinical Diagnostics, Molecular Diagnostics and Immunodiagnostics.

Honours/Distinctions

Dr. Binita Goswami, won the Young scientist award, MAMC

Publications

Maheswari, R., Urs, A.B., Kumar, P., Koner, B.C., Guru, S.A., Rawat, G. (2024) Exploring miR-155-5p and miR-1246 as Diagnostic and Prognostic Markers in Oral Squamous cell carcinoma. *Mol Biol Rep* 51(1), 341.

Singh, K., Urs, A.B., Koner, B.C., Augustine, J., Shrivastava, R., Narayan, B. (2024) Upregulation of miRNA-196a and miRNA-196b correlates with Bryne's prognostic score in oral squamous cell carcinoma. *Pathol Res Pract*. 253, 154954

Garg, A., Urs, A.B., Koner, B.C., Augustine, J., Guru, S.A. (2023) Evaluation of Diagnostic Significance of Salivary miRNA-184 and miRNA-21 in Oral Squamous Cell Carcinoma and Oral Potentially Malignant Disorders. *Head Neck Pathol*. 17 (4), 961-968.

Viswas, A., Dabla, P.K., Gupta, S. Yadav, M. Tanwar, A., Upreti, K., Koner, B.C. (2023) SCN1A Genetic Alterations and Oxidative Stress in Idiopathic Generalized Epilepsy Patients: A Causative Analysis in Refractory Cases. *Ind J Clin Biochem* .

Krishna, G.M., Dabas, A., Mantan, M., Kumar, M. A., Goswami. B. (2024) Adrenocortical suppression in children with nephrotic syndrome treated with corticosteroids. *Pediatr Nephrol*. 39 (6),1817-1824.

Bansal, A., Dubey, A., Singh, V.K., Goswami, B., Kaushik, S. (2023) Comparison of traditional essay questions versus case based modified essay questions in biochemistry. *Biochem Mol Biol Educ*. 51(5), 494-

Krishna, G.M., Dabas, A., Mantan, M., Kumar, M. A., Goswami, B. (2024) Adrenocortical suppression in children with nephrotic syndrome treated with corticosteroids. *Pediatr Nephrol.* 39(6), 1817-1824.

Kumar, M., Balyan, K., Debnath, E., Himtsoe, B., Sapna, S., Kumar, A. (2023) Antenatal risk stratification for preeclampsia with sFlt-1/PlGF ratio: Which is the best time to test? *Pregnancy Hypertens.* 34, 39-46.

Narayana, Y.V., Chhapola, V., Tiwari, S., Debnath, E., Aggarwal, M., Prakash, O. (2023) Diagnosis of bacterial infection in children with relapse of nephrotic syndrome: a personalized decision-analytic nomogram and decision curve analysis. *Pediatr Nephrol.* 38 (8), 2689-2698.

Gora, A., Singh, P., Debnath, E., Malhotra, R.K., Seth, A. (2023) Daily vs. monthly oral vitamin D3 for treatment of symptomatic vitamin D deficiency in infants: a randomized controlled trial. *J Pediatr Endocrinol Metab.* 36 (7), 683-691.

Rao, S., Basu, S., Nandi, K., Singh, M.M., Lalwani, H., Maheshwari, V., Borle, A., Sharma, N. (2024) Metabolic syndrome burden, determinants and treatment status in an urban slum resettlement colony in Delhi, India. *Int Health.*

Jamatia, E., Goswami, B., Kaushik, S., Koner, B., Chandra. Gender variability in performance of multiple-choice question-based assessment on medical biochemistry topics among 1st year MBBS students. *Indian Journal of Health Sciences and Biomedical Research KLEU* 16 (2), 237-241

Prisi, S., Khurana, V., Goswami, B., (2023) Interplay between coagulopathy and inflammation in patients with COVID-19. *MGM Journal of Medical Sciences* 10 (2), 264-268

Khurana, V., Goswami, B., Aggarwal, S., Kaushik, S. (2023) Implications of Inflammatory markers for disease management in patients with chronic kidney disease and COVID-19 infection: A cross-sectional study from North India. *Current Medicine Research and Practice* 13 (4), 156-162,

Research Projects

ICMR, Co- PI -Dr. Binita Goswami, Pituitary function assessment after traumatic brain injury in children: A prospective cohort study., Rs. 31,73,200/-

DHR, Dr. Binita Goswami, Association of endocrine disruptors (plasticizers) with early puberty in Indian children, Rs 99,00,000/-

ICMR, Co- PI -Dr. Binita Goswami, Pediatric kidney disease program: Identification of biomarkers by serum and urinary metabolonomics for early detection of progression. Project start date, Rs. 59,21,227/-

Govt of NCT of Delhi, Dr. Ekta Debnath, Role of cell free fetal DNA (CffDNA) as a predictive biomarker of Pre-eclampsia, 3 lac

Govt of NCT of Delhi, Dr. Kajal Nandi, Association of expression of mi RNA(mi RNA-128, mi RNA - 138 and miRNA-21) in tissue and whole blood with cancer stem cells in glial tumor, 3 lac

Seminars Organized

Dr. Gopal Nath, Professor, Deptt of Microbiology BHU, Varanasi (UP) , NIL, Role of Gut Microbiome in Health and Diseases, 24-04-2023.

Dr. Sigal Eilat Adar, Clinical Dietitian and epidemiologist, NIL, Health, Politics and coke , 28-08-2023.

Seminar/Conference Presentations

Dr. Anubhuti: Delivered lecture on the "Role of genomics in personalised medicine" at AMBICON, Mumbai

Dr. Anuupama Suchiita: Delivered a talk titled 'Mechanism of toxicity and Body's response- Biochemical Underpinnings' as part of the Training Programme on 'Epidemiological Study with respect to Chemicals like Arsenic, Polyaromatic Hydrocarbons (PAHs), etc.' held at the Centre for Occupational Health, Maulana Azad Medical College

Dr. Navya Gupta: Delivered lecture on "Solving the solutions" at workshop titled Laboratory techniques in molecular genetics and cytogenetics, organised by the Department of Anatomy, MAMC

Faculty Strength

Senior Professor/Professor/Director:	6
Associate Professor:	0
Assistant Professor:	2
Ad-hoc:	2 Assistant Professor and 1 consultant

MEDICAL MICROBIOLOGY (UCMS)

Major Activities and Achievements

The Department won the first ever “Indrayan Award For Excellance in Research 2023”.The “Antibiogram 2023” was released and uploaded on the website for clinician and public use.

Several extension and outreach programs (under VRDL-DHR & AMR Surveillance) were planned and executed by the department. Regular public awareness programs for patient welfare were held throughout the year (AMR,Fungal & hepatitis awareness week).

Honours/Distinctions

Dr Shukla Das was nominated as vice-president Indian Society of Medical Mycology and President of Indian Association Medical Microbiologist-Delhi Chapter.

Dr. Rumpa Saha was awarded Best oral paper award in STI/RTI category for Oral Paper presentation on the topic “Arobic Vaginitis: a neglected entity among reproductive women”

Dr. Nadeem Ahmad was awarded AMP's 7th National Award for Excellence in Education 2023 Dr. Kirti Nirmal received distinguished service in the field of Academics on Doctors Day on National Doctors Day award at IMA Headquarters on 1/7/2023. Dr. Kirti Nirmal received Vishit Seva Rattan award on Doctors Day on 2/07/2023 organized by IMA EDB.

Publications

- Sarkar, K., Ahmad, N., Banik, D. (2023) Burden of Syphilis Infection and Biological False Positive Reactivity in VDRL test Among Pregnant Females: Insights from a Two- Year Study. *OJHAS* 4 (22), 2
- Sarkar, K., Ahmad, N., Banik, D., & Singh, N. P. (2023) Antinuclear Antibodies: A demographic profile from a Tertiary Healthcare Centre of Delhi. *SVU-International Journal of Medical Sciences* 2 (6) 331-339
- Meena, M.K., Ahmad, N., Singh, N.P. (2023) Demographic and Bacteriological Profile of Patients with Urinary Tract Infection: A Study from a Tertiary Care Centre in North India. *Online J Health Allied Scs* 2 (22), 2
- Kashyap, B., Ahmad, N., Jhamb, R., Chaudhary, K. (2024) Widal test interpretation in COVID-19 patients: a study from a dedicated COVID center. *Social Determinants of Health* 1 (10) 1–9
- Nirmal, K., Saini, V., Ahmad, N., & Pal Singh, N. (2023) Assessment of blood culture and tube agglutination serology test for the diagnosis of typhoid fever amongst malaria-negative patients: a one-year hospital-based study. *Healthcare in Low-Resource Settings* 1 (11)
- Das, S., Nirmal, K., Gupta, C., Jain, C., Gupta, N. et al. (2023) COVID associated fungal sinusitis: An experience from a tertiary care hospital. *Clin Otolaryngol* 4 (48), 715-720
- Jain, C., Birahman, N., Das, S., Sinha, S., & Singh, N. (2023) The Prevalence of Hepatitis A Virus and Hepatitis E Virus in a tertiary care hospital, East Delhi, India. *Medical and Health Science Journal*, 1 (7), 01–08
- Rai, G., Das, S., Ansari, M.A., Singh, P.K., Dar, S.A., et al. (2023) Implications of CD45RA and CD45RO T cell subsets in patients of chronic rhinosinusitis with nasal polyposis infected with *Aspergillus flavus*. *Scand J Immunol* 5 (98)
- Sarkar K, Kashyap B, Jhamb R, Madhu SV (2023) Assessing Pulmonary Tuberculosis Using Bandim Tuberculosis and Karnofsky Performance Scale Scores with Serum Adenosine Deaminase Levels. *Korean Journal of Family Medicine* 4 (44) 234-239
- Kashyap, B., Jhanjharia, S., Saha, R., Gomber, S. (2023) Missed Phenotypic Drug Resistance in Pediatric Tuberculosis: A Cause of Concern in Resource-limited Setting. *Indian Journal of Tuberculosis* 21 (70)
- Gupta, N., Kashyap, B., Dewan, P., Hyanki, P. (2023) Serum Levels of Interleukin-12 and Interferon Gamma in Pediatric Tuberculosis: A Clinico-Microbiological Correlation. *Journal of Health Science and Medical Research*. *Journal of Health Science and Medical Research* 4 (41)
- Das, G., Kashyap, B., Bahal, A., Yadav, P., Singh, B., Singh, N. (2024) Conjunctivitis outbreak in Delhi: Lessons learnt to combat breach in antimicrobial stewardship. *Tropical Doctor* 2 (54) 202-203
- Nirmal, K., Saini, V., Ahmad, N., & Pal Singh, N (2023) Assessment of blood culture and tube agglutination serology test for the diagnosis of typhoid fever amongst malaria-negative patients: a one-year hospital-based study. *Healthcare in Low-Resource Settings* 1 (11)
- Nirmal, K., Ganga, S., Meena, M. K., Das, S., Singh, N.P. (2023) Microbiological profile and air quality indoor effects in the operation theatres of a tertiary care hospital: An impact on disease burden. *Int J Cur Reas* 8 (15) 25462-25465
- Nirmal, K., Saini, V., Kumari, S., Singh, N.P., Das, S., Jothisri, L., et al. (2024) Assessment of the culture positivity of blood pathogens and clinical outcome of neonatal septicemia patients admitted in intramural

NICU of a tertiary care referral hospital. Int. J Sci. Res 1 (13)

Chhabra, M., Nirmal, K., Chauhan, A., Athotra A., Kansra, S., Shulania, A., et al (2024) Comparison of seven commercial RT-PCR kits with the NIV kit for the diagnosis of Covid-19. Ann Natl Acad Med Sci (India) 60

Gupta, P., Nirmal, K., Singh, N.P., Misra, V. (2023) The changing bacteriological profile of neonatal sepsis in a tertiary care hospital – Emergence of *Citrobacter* septicemia. IP Int J Med Microbiol Trop Dis 1 (9), 1-5

Research Projects

ICMR, Dr. Shukla Das, VRDL, UCMS & GTB Hospital., 1.8Cr.

Bill & Mellinda Gates Foundation, Dr. Charu Jain, Multicentric project Clinical Recruitment site for “Strengthening laboratory surveillance for pneumococcal meningitis in India to understand the impact of pneumococcal conjugate vaccine (PCV) rollout’.

DHR-MRU, Dr. Nadeem Ahmad, Serological and molecular evidences of brucella infection in patients with uncommon clinical manifestations, 2.5L.

Seminars Organized

Dr. Shukla Das; Dr. Chander Grover, IAMM-Delhi Chapter, “Dermatophytes Dermascopy & Immune Responses”, 02-11-2023.

Dr. Anuj Sharma, Technical focal point for AMR, WHO, WHO-Radcliffe Foundation, • “AMR Frontline Workshop”, 11-12-2023.

Dr Arunaloke Chakraborty, Demystifying Fungal Infections , 27-08-2023.

Dr. Bhupesh Taneja, Senior Scientist, IGIB, VRDL ICMR, Neglected Tropical Diseases , 12-02-2024.

Dr. Shukla Das, NACO/DSACS, ICTC workshop for Lab Technicians , 22-09-2023.

Conferences Organized

Undergraduate Medical Conference of UCMS, Medicamentum 2023, 22-11-2024.

Sepsis & Newer Antibiotics, 02-05-2023.

Chromoblastomycosis, 08-09-2023, ISMM

Cyber Alert and online safety programme, 20-04-2023, ICC

Antimicrobial awareness week , 18-11-2023, WHO

National/International MoUs Signed

MoU with IGIB, Delhi

Other Inter-Institutional Collaboration

Collaboration with MRU-DHR for various research Project

Student under Exchange Program(Inbound/Outbound)

BSc MLT Programme internship for Meera Bai Institute.

Number and percentage of students placed

The post graduate pass out (approx. 90%) are placed in reputed medical colleges and premier institutes of India Like AIIMS, VMMC, MAMC, KGMU, BL Kapoor Hospital to name a few.

Extension and Outreach Activities

Regular Public Awareness Lecture on “Antimicrobial Resistance”

Organization of community awareness program on VIRAL HEPATITIS in collaboration with Dept. of Community Medicine on 18 th December 2023.

“Local Antimicrobial Resistance Pattern Document (January-December 2023)” released by Department of Microbiology, UCMS & GTB Hospital.

“Microbiology Newsletter Document, Published in March 2024” released by Department of Microbiology, UCMS & GTB Hospital.

One Day Workshop on “Serodiagnosis of HIV Infection” organized by HIV-Unit, Virology Section, Department of Microbiology, UCMS & GTB Hospital, Delhi.

“AMR Frontline Workshop” held at UCMS & GTB Hospital, Delhi.

“Walkathon” as part of World Antimicrobial Awareness week (WAAW) 2022: Preventing Antimicrobial Resistance Together” (21/11/2023)

Faculty Strength

Senior Professor/Professor/Director: 03

Associate Professor: 05

Number of M. Phil and Ph.D. Degrees Awarded

Ph.D. : 01

MEDICINE (UCMS)

Major Activities and Achievements

The Medicine Department at our institution has achieved significant milestones in recent years, further enhancing its reputation for excellence in healthcare and medical education. Among its notable achievements, the department has successfully established a fully functional Coronary Care Unit (CCU), providing high-quality care to critically ill cardiac patients. Additionally, the department has embraced innovation in medical education by implementing Competency-Based Medical Education for the batch of

2019 onwards, ensuring that our medical students receive a modern and comprehensive training experience as per NMC curriculum. Moreover, the department now boasts the remarkable facility of Point of Care urinary toxicology screening in medical emergency, enabling rapid and accurate diagnostics for unknown poisonings, which is pivotal in saving lives.

Honours/Distinctions

Dr Amitesh Aggarwal Received Fellowship in Indian Society of Chronomedicine. Dr Anshuman Srivastava and Dr Shiva Narang Received Fellowship of Indian college of Physicians. Dr Shiva Narang received the State award for Exceptional work for persons with disability.

Publications

Aggarwal, A., Nath, S., & Chawla, D. (2023) Factors predisposing to recurrence of early onset Coronary Artery Disease (CAD) in adults below 45 years of age. *Journal of International Medical Sciences Academy* 36 (2), 145-148

Kumar, K., Srivastava, S., Meena, A., (2023) The Association of Psychosocial Manifestations and Quality of Life With Inflammatory Markers in SARS-CoV-2 Patients: A Study From a Dedicated COVID-19 Tertiary Care Hospital. *Cureus* 7 (15), 11-14

Research Projects

Cadilla, Dr Shiva Narang, Phase II, Multicenter, Randomized, Assessor-blind, Parallel-group, Active-comparator Study to Determine the Efficacy, Safety, Tolerability and Pharmacokinetics of Different Orally Administered Regimens of ZY-19489 in Uncomplicated Plasmodium Falciparum Malaria Patients, 1 lakh

Conferences Organized

34th Annual Conference of Indian Society for Atherosclerosis Research,, 17-11-2023.

Seminar/Conference Presentations

Dr Alpana Raizada gave a talk on Chronic Kidney Disease in Older Adults in 136th Anniversary International Medical Congress of Sri Lanka Medical Association (SLMA) BMICH, Colombo. 25 -28 July 2023

Dr Anshuman Srivastava Conducted workshop at 79th Annual Conference of The Association of Physicians of India, APICON 2024, New Delhi.

Faculty Strength

Senior Professor/Professor/Director: 5

Associate Professor: 4

Assistant Professor: 1

OPHTHALMOLOGY (LHMC)

Major Activities and Achievements

Delhi Ophthalmology Society Monthly Meeting at LHMC (2.4.2023)

National eye donation Fortnight celebrations at LHMC 25th August to 8th September, 2023

Live Public awareness Program about common ocular diseases on Squint, Common diseases in elderly, 22/09/2023, Radio doctor Program, Akashwani

World sight day Celebrations 12/10/2023.

Free Presbyopia spectacle distribution for patients under NPCB, IDHS, New Delhi District in LHMC College, New Delhi, 06/01/2024

Glaucoma week celebration at LHMC College 16/04/2024

Honours/Distinctions

Dr. Om Prakash received award of 'Outstanding Ophthalmic Teachers of India' at 7th national assembly of Forum of Ophthalmic Teachers of India (FOTI), Delhi 6-7 Jan 2024

Dr. Sarita Beri was awarded with honorary 'FAICO in Vitreo-retinal Surgery'

Dr. Sarita Beri was awarded Gold medal in Teachers of Future Session at AIIMS Delhi 11 March 2024.

Dr. Piyush Kumar Ramavat was awarded 'FAICO in Glaucoma', by All India Ophthalmological Society, 12th May 2023.

Dr. Sonali Gupta, Assistant Professor, was appointed as an examiner for the 'Royal College of Ophthalmologists. London' and 'Royal College of Physicians and Surgeons of Glasgow' for FRCOphth and FRCS examinations in Ophthalmology

Publications

Scopus

Chaudhuri Z, Karthikeya R, Singh Y, Kataria P, Garga UC. (2023) , Periventricular white matter changes on neuroimaging in children with primary concomitant strabismus, *ARVO Annual Meeting Abstract*, 64 (8), 5430

Seminars Organized

All faculty of dept of Ophthalmology, All faculty from department of Ophthalmology, Delhi Ophthalmology Society, Delhi Ophthalmology Society Monthly Meeting, 02-04-2023.

Conferences Organized

Delhi Ophthalmology Society Monthly Meeting, 02-04-2023.

Seminar/Conference Presentations

Dr Zia Chaudhuri. Oral presentation 'Periventricular white matter changes on neuroimaging in children with primary concomitant strabismus. ARVO meeting at New Orleans, USA, April 23-27, 2023.

Dr. Yogita Gupta, Asia Pacific Academy of Ophthalmology Congress, 22-25 feb 2024, Bali, Indonesia.

Dr. Sarita Beri. Faculty Presentation 'Setting Up a Purchase Board: Structure, Functions and Decision Making Process' Delhi Ophthalmological Society Mid-term Conference, Delhi on 2-3 September 2023.

Dr. Piyush Kumar R. Ramavat, Faculty Presentation 'Approach in Disc Suspect' Delhi Ophthalmological Society mid-term conference, New Delhi on 2nd -3rd September 2023.

Dr. Himanshu Prakash, e poster 'Xerophthalmia in Pregnancy' Delhi Ophthalmological Society Mid-term conference, 2-3 Sept 2023.

Dr. Anjali Meena, eposter 'A rare case of chemical injury to eye' Delhi Ophthalmological Society Mid term conference, 2-3 Sept 2023.

Dr. Sakshi Verma, Free paper 'A case of post traumatic binocular diplopia due to symblepharon. Delhi ophthalmological Society Mid term conference, 2-3 Sept 2023.

Dr. Sidrah Imran. Eposter ' A case of acute alkali injury' Delhi Ophthalmological Society Mid term conference, 2-3 Sept 2023.

Dr. Piyush Kumar R. Ramavat. Faculty presentation on 'Gonioscopy' Delhi Ophthalmological Society Teaching Programme, RPC, AIIMS, 17-11-2023.

Faculty Strength

Senior Professor/Professor/Director:	3
Associate Professor:	1
Assistant Professor:	2
Ad-hoc. Faculty Member:	1

OTOLARYNGOLOGY (UCMS)

Major Activities and Achievements

A multidisciplinary workshop on allergy was organized on 8th December 2023. It was attended by 80-85 delegates and had talks by experts on various aspects of allergy, panel discussion, and hands-on workshop on skin prick tests and pulmonary function tests. On 11th March 2024, on the occasion of World Hearing Day, a training program for ASHA workers was held with experts from pediatrics, community medicine, and ENT. They were taught about the importance of early detection of hearing loss and its impact on the community.

Honours/Distinctions

Dr. Neelima Gupta was awarded Health Icon Award by Integrated Medical Association on 2nd Dec, 2023. Dr. Neelima Gupta was also awarded Top Reviewers Award at the Annual AOICON, Bangalore for

Reviewer of IJOHNS for outstanding review history.

Publications

Verma, N., Goyal, A., & Gupta, N. (2023) Hearing outcomes in pediatric tympanoplasty and factors affecting surgical outcomes in the current era. *Int J Pediatr Otorhinolaryngol* 171, 111634

Research Projects

TATA trust, Dr Vipin Arora, Functional characterization of patient derived single cell spheroids from squamous cell carcinoma to decipher clinical heterogeneity: a tool for drug screening and radiation sensitivity, 95 lacs

ICMR, Dr Vipin Arora, Identification and characterization of cancer stem cells heterogeneity in head and neck cancer patients and their response to chemotherapy and radiation: a prospective study, 95 lacs

ICMR, Dr Vipin Arora, Repurposing of prochlorperazine as radiosensitizer for radiotherapy of mutant head and neck squamous cell carcinoma, 87 lacs

MRU, UCMS, Dr Neelima Gupta, Evaluation of Sonic Hedgehog in patients of Olfactory and Gustatory dysfunction.

Seminars Organized

Dr Neelima Gupta, Dir Prof and HOD, NA, Training program for ASHA workers on World hearing day , 11-03-2024

Conferences Organized

Allergy from triggers to treatment, 08-12-2023, UCMS

Seminar/Conference Presentations

Dr Neelima Gupta delivered a talk on Olfactory disorder- diagnosis & management at IAOHNS Jammu Aug 2023.

Dr Neelima Gupta delivered a talk on Impact of environmental pollution on nasal disease-science behind it at Delhi AOICON 22nd-24th Sept, 2023.

Dr Neelima Gupta delivered a talk on Allergies- Triggers, diagnosis and Management options in Platinum Jubilee Annual conference Association of Otolaryngologists of India 4th-7th jan 2024. Dr. Laxmi Vaid presented a paper on “women in medicine” in the inaugural conference of WAOI on 17th September 2023.

Dr. Laxmi Vaid presented a paper on “complications of FESS” in WAOI meet in Apollo hospital Delhi on 10th march 2024.

Faculty Strength

Senior Professor/Professor/Director: 3

PATHOLOGY(UCMS)

Major Activities and Achievements

The Department of Pathology has well developed sections including Histopathology, Cytopathology, Haematology, Blood Bank, Molecular Pathology and Clinical Pathology including work up of autoimmune diseases for providing routine diagnostic services to the patients with minimum turn-around time. The lab is also a nodal centre for autopsy performance from East Delhi. Molecular techniques has been standardised as a part of research work. The Blood bank of GTB Hospital is recognized as Regional Blood Transfusion Centre (RBTC), East Zone of Delhi and is certified NABH Accredited Blood Bank. Blood bank is also computerised centre. Immunology lab has been established providing autoimmune and immunodeficiency workup. Outsourcing facilities has also been established. The department caters research work for numerous postgraduate students not only from department of Pathology but other clinical departments too as part of their thesis work. Many intramural and extramural research works have been carried out in this section over the years. The residents and faculty members are involved in various research projects and publishing their work in indexed national and international journals. We are actively involved in teaching MBBS and MD students; paramedical- MLT and BSc Physiotherapy students; along with organising workshops and conferences.

Honors and Distinctions

Faculty

Gupta R. Felicitated by State blood cell, Delhi for significant contribution to Voluntary Blood Donation on June 01, 2023.

Nakra T. Completed NICPR-ECHO Online Certificate Course on Cervical Cancer Screening for Pathologists in Jan-Mar, 2024.

Jain P. Successfully completed online course on dermatopathology in January 2024.

Khairwa A. Secured 3rd prize for oral paper and 3rd prize for poster presentation. Also got prize in Hindi Debate.

Publications from Department: (alphabetically according to surname; consolidated)

- Agrawal, A., Tahlan K., Diwaker P., Gogoi P. (2023). A Case of Tubular Carcinoid of the Appendix: A Rare Entity. *National Journal of Laboratory Medicine*, 12(4), PC01-PC03.
- Arora, I., Madhu, S. V., Raizada, N., Gupta, S., & Tanveer, N. (2023). Neurofibromatosis 1 with atypical parathyroid adenoma and hypertrophic cardiomyopathy. *IJEM Case Reports*, 1(3), 83-87.
- Choudhary, F., Rani, P., Kotru, M., Gomber, S., Dewan, P., Gupta, R., ... & More, S. (2023). Correlation of T-regulatory Cells and Iron Status in β -Thalassemia Major Patients. *Cureus*, 15(2).
- Das, S., Nirmal, K., Gupta, C., Jain, C., Gupta, N., Arora, V., ... & Singh, N. P. (2023). COVID associated fungal sinusitis: An experience from a tertiary care hospital. *Clinical Otolaryngology*, 48(4).
- Dixit, S., Jain, P., Jain, S., Gupta, R., Grover, C., & Sharma, S. (2023). Introducing a novel histopathological scoring system to assess disease activity and chronicity in cutaneous lichen planus: A proposal. *Journal of Cutaneous Pathology*, 50(10), 922-928.

- Gupta, K., Tanveer, N., Sharma, S., Das, S., & Naz, F. (2024). Exploring the utility of *Aspergillus* conidial heads in histopathology specimens of Post COVID-19 outbreak of invasive fungal infections. *Indian Journal of Pathology and Microbiology*, 67(3), 717-719.
- Gupta, R., Garg, N., Singh, A., & Jain, S. L. (2023). Zeta-associated protein 70 expression in chronic lymphocytic leukemia: Relevance in Indian context. *Indian Journal of Pathology and Microbiology*, 66(2), 291-294.
- Grover, C., Gaurav, V., Sharma, S., & Sinha, S. (2023). Pigmented Onychomatricoma Presenting as Pachymelanonychia Striata: A Case Report and Review of Literature. *Skin Appendage Disorders*, 9(5), 366-372.
- Jain, P., Wadhwa, N., Diwaker, P., Joshi, M. K., & Mishra, K. (2023). Alteration in key oncoprotein expression in gastric adenocarcinoma—An immunohistochemical study. *Journal of Cancer Research and Therapeutics*, 19(Suppl 1), S355-S360.
- Jha, T., Agrawal, A., Diwaker, P., Rohatgi, J., & Arora, V. K. (2023). Orbital fine needle aspiration cytology: An effective diagnostic tool for orbital mucormycosis. *Indian Journal of Ophthalmology-Case Reports*, 3(4), 1152-1155.
- Jha, T., Dagar, S., & Diwaker, P. (2023). Impact of Coronavirus Disease 2019 on Postgraduate Training: Comparison of Dedicated and Nondedicated Coronavirus Disease 2019 Centers. *Age (years)*, 26, 1-50.
- Khatana, D., Rani, P., Jain, S., Gupta, R., Goel, A., & Kotru, M. (2023). Inherited thrombophilia: undetected comorbidity complicating COVID-19 infection. *American Journal of Blood Research*, 13(3), 94.
- Khairwa, A. (2023). High-Grade Chondrosarcoma of Nasal Septum- A Rare Case Report and Review of Literature. *International Journal of Clinical and Molecular Oncology*, 2(2), 1-3.
- Khairwa, A., Kotru, M., Dewan, P., & Jain, S. (2024). Clinicohematological profile and immunophenotypic patterns of childhood acute leukemia: Prognostic correlation. *Tumor Discovery*, 3(2), 2545.
- Kumar, R., Gupta, R., Dewan, P., Kashyap, B., & Kotru, M. (2024). Raised circulatory T regulatory cells in paediatric tuberculosis—An environment for bacterial persistence?. *Indian Journal of Tuberculosis*, 71(1), 12-18.
- Lobo, A., Jha, S., Kapoor, R., Diwaker, P., Akgul, M., Arora, S., ... & Mohanty, S. K. (2024). Solitary fibrous tumor of the kidney with pure round cell features: a case report with review of literature. *International Journal of Surgical Pathology*, 32(4), 851-855.
- Mohanty, S. K., Diwaker, P., Mishra, S. K., Jha, S., Lobo, A., Panda, S. P., ... & Parwani, A. V. (2024). Diagnostic utility of gata3 and isl1 in differentiating neuroblastoma from other pediatric malignant small round blue cell tumors. *International Journal of Surgical Pathology*, 32(2), 294-303.
- Nalwa, A., Nakra, T., Yadav, R., Walia, R., Agarwala, S., Jana, M., ... & Iyer, V. K. (2023). Cytomorphology of paediatric hepatocellular carcinoma: A useful diagnostic adjunct. *Cytopathology*, 34(5), 479-488.

- Nambiar, K., Tanveer, N., Kumar, S., Sharma, S. (2024). Image Quiz: Lymphadenopathy Misdiagnosed. *UCMS Journal of Medical Sciences*, 1 (2), 45-48.
- Narwal, A., Kumari, K., Kaushal, S., Seth, A., Nayak, B., Rustagi, Y., & Dinda, A. K. (2023). The study of miRNA-200c expression and epithelial-to-mesenchymal transition-related transcription factors in the primary bladder urothelial carcinoma. *Urology Annals*, 15(1), 35-42.
- Naskar, S., Tanveer, N., Sharma, S., & Kaur, N. (2024). Cytoplasmic Expression of p16 Is Associated with Carcinoma Breast: It Is Not an Artifact. *Iranian Journal of Pathology*, 19(2), 161-170.
- Naz, F., Tanveer, N., Verma, H., Sudheer, K. A., Kakkar, A., Ranjan, A., ... & Tanwar, P. (2023). Relevance of Partial p16 Immunostaining in Oral Squamous Cell Carcinoma and Co-Relation with HPV DNA Status. *Asian Pacific Journal of Cancer Prevention: APJCP*, 24(12), 4093.
- Patel, A., Suneja, A., Malik, R., Gupta, B., & Sharma, S. (2024). Chromocolposcopy with fluorescein sodium for detection of premalignant and malignant lesions of the cervix: A cross-sectional study. *International Journal of Gynecology & Obstetrics*, 165(1), 169-175.
- Pujani, M., Singh, K., Chauhan, V., Khandelwal, A., Chawla, R., & Ahuja, R. (2023). Xanthogranulomatous change in a leiomyoma: first report of an extremely rare variant/degenerative change. *Journal of Mid-life Health*, 14(1), 60-62.
- Rai, G., Das, S., Ansari, M. A., Singh, P. K., Dar, S. A., Gupta, N., ... & Jain, C. (2023). Implications of CD45RA and CD45RO T cell subsets in patients of chronic rhinosinusitis with nasal polypsis infected with *Aspergillus flavus*. *Scandinavian Journal of Immunology*, 98(5), e13318.
- Rajpoot, J., Jain, M., Singh, K., Singh, A., Sarohi, M., & Tyagi, V. (2024). Sclerosing angiomatoid nodular transformation of spleen: A rare case report. *Indian Journal of Pathology and Microbiology*, 67(3), 691-694.
- Rathore, R., Aggarwal, D., Tanveer, N., & Sharma, S. (2023). Cytohistological and Immunohistochemical Correlation of Cutaneous Mixed Tumors: A Series of Four Cases and Review of Recent Molecular Updates. *Cureus*, 15(10).
- Raychaudhuri S., Kahlon N., Sidam D., Singh M., Pujani M., Singh K., Chauhan V., Das A. (2023). Introducing Case Study-based Panel Discussion as an Effective Means of Self-Directed Learning in Phase 2 MBBS Students: A Cross-sectional Study. *Journal of Clinical & Diagnostic Research*, 17(7).
- Sharma, N., Gupta, R., Kotru, M., Gomber, S., & Gautam, H. V. (2023). Higher baseline natural killer cell counts are associated with a lower 8-day blast count and lower day 33 minimal residual disease in children with pediatric B-acute lymphoblastic leukemia. *American Journal of Blood Research*, 13(1), 53.
- Sharma, N., Nakra, T., Agarwal, S., Gupta, V., Singh, M. K., & Arava, S. (2023). Cutaneous adnexal tumours: A study of 395 cases from a tertiary care hospital. *Indian Journal of Dermatology*, 68(1), 41-44.
- Sharma, P., Gupta, R., Sharma, S., Kotru, M., Singh, G., & Sikka, M. (2023). Coagulopathy in the absence of overt DIC in postoperative neurosurgical patients is a strong predictor of poor outcome. *American Journal of Blood Research*, 13(4), 110.

- Shastri, M., Kotru, M., Raizada, A., Mahajan, B., Jain, R., & Sikka, M. (2023). Inflammatory markers in geriatric anemia: A study from North India. *Journal of Family Medicine and Primary Care*, 12(8), 1663-1668.
- Singh, A., Pujani, M., Singh, K., Yadav, A., Prasad, B., & Agarwal, P. (2024). A Case of Fibrosarcoma Arising in Giant Cell Tumor of Bone: a Rare Entity. *Indian Journal of Surgical Oncology*, 15(Suppl 1), 162-166.
- Suneja, P., Diwaker, P., & Ranjan, K. (2023). Cytomorphologic panorama of giant cell tumour of tendon sheath. *Diagnostic Cytopathology*, 51(12), 772-778.
- Tyagi, M., Grover, C., & Sharma, S. (2023). Post-Traumatic Extensive Scalp Ulceration: A Diagnostic and Management Challenge!. *Indian Dermatology Online Journal*, 14(6), 852-855.
- Verma, L., Singh, K., Pujani, M., Jain, M., Chandoke, R. K., Agarwal, C., ... & Jain, A. (2024). A Correlation of Tumour Budding and Tumour-Stroma Ratio with Clinicopathological Factors in Oral Squamous Cell Carcinoma. *Sultan Qaboos University Medical Journal*, 24(1), 52.
- Yadav, A., Pujani, M., Singh, K., Chauhan, V., Singh, A., & Sharma, J. C. (2023). Synchronous Occurrence of Adult Granulosa Cell Tumor with Fibroma in One Ovary and Brenner Tumor in Other Ovary: An Extremely Unusual Case. *Journal of Mid-life Health*, 14(1), 56-59.
- Yadav, S., Gandhi, V., & Sharma, S. (2024). Arsenical Keratosis with Unusual Lung Involvement. *Indian Dermatology Online Journal*, 15(2), 334-336.

Books/chapters:

- Sanyal, K., Kotru, M. Utility of IHC in Bone marrow Biopsy'. In Pearls of Pathology. Eds Purohit A.
- Rana, D. Kikuchi-Fujimoto disease. In Ace the Boards: Non-Neoplastic Hematopathology and Coagulation.
- Rana, D. Autoimmune lymphoproliferative syndrome. In Ace the Boards: Non-Neoplastic Hematopathology and Coagulation.
- Rana, D. Indolent T-lymphoblastic proliferation. In Ace the Boards: Non-Neoplastic Hematopathology and Coagulation.

Research Projects

Tripti Nakra (PI), "Mismatch repair protein expression and promoter methylation status of MLH1 gene in epithelial ovarian carcinoma" MRU, UCMS, October 2023-25, 2 lakhs

Gupta R. Intramural Project at UCMS (ICMR funded) - "Peripheral blood T regulatory cells and Th1, Th2, Th17 immune milieu in antenatal females with a history of recurrent pregnancy loss"

Conferences /Seminars Organized

Kotru M. Organizing chairperson in 'CME on Acute leukemia', organized by Department of Pathology on March 22, 2024.

Gupta R. Organized mega blood donation camp on occasion of World Blood Donor Day at UCMS & GTB Hospital with more than 300 donations on June 01, 2023

Tanveer N. Organized the Preconference Workshop on Smartphone telepathology at 71st Annual Conference of Indian Association of Pathologists and Microbiologists (APCON) organized by All India Institute of Medical Sciences, New Delhi on December 06, 2023.

Khairwa A. CME Organized on Acute Leukemia in Children on March 22, 2024

Seminar/Conference Presentations

Sonal S

- “Grossing techniques relevant to cervical pathology and Histopathologic panorama of cervical precancerous lesions and carcinoma” in an Online Certificate Course on Cervical Cancer Screening for Pathologists organized by the ICMR-National Institute of Cancer Prevention and Research, Noida on August 08, 2023
- “Granulomatous Disorders” organized by Basic Dermatopathology CME for Pathology & Dermatology Postgraduate Students, Co-organized with Department of Dermatology ABVIMS & Dr RML Hospital, Delhi on October 15, 2023. Lecture on. Organising Secretary.
- “Historical Aspects of Telepathology” Sonal S. Organized Workshop on Smartphone Telepathology at Pre-Conference in 71st Annual Conference of Indian Association of Pathologists and Microbiologists, AIIMS, N Delhi on December 06, 2023
- “Challenges in interpretation of Nail biopsies” in Dermatopathology Workshop at Pre-Conference Workshop of 71st Annual Conference of Indian Association of Pathologists and Microbiologists, AIIMS, N Delhi. 06.12.23.

Kotru M

- Megaloblastic anemia for DNB, Pathology on 25th April by Kotru M, on “Coagulation disorders: Pitfalls & troubleshoots” at quarterly meet of Delhi society of hematology held in RML hospital on May 13, 2023
- “MPN: recent updates” at quarterly meet of Association of practicing Pathologist, Hotel Lalit on July 16, 2023
- “Understanding the link between blood clots & cancer” organized by DSH held on September 30, 2023
- “Refractory Anemia” in 64th Annual Conference of the Indian Society of Haematology & Blood Transfusion (ISHBT) “Haematocon 2023” at Hotel Mayfair, Bhubaneswar held from November 02-05, 2023

Gupta R

- “Interesting case presentation” in 25th INDO-US FCM Workshop on Flow cytometry and its applications in Clinical Diagnostics' held at SGPGI, Lucknow, from February 2-4, 2024
- “Transfusion” in 18th DCCS 2023 Critical Care Symposium (Annual Conference of SCCM Delhi - Noida) held at The Stein Auditorium, India Habitat Centre, Delhi from November 3-5, 2023
- “Hemolytic transfusion reactions – Work up” in "7th Annual Conference of the Association of Practicing Pathologists, India (PATHCON & Lab Expo 2023 at hotel the Lalit, New Delhi on December 17, 2023.

- "Basic Principles of Flow cytometry- a systematic approach" in the National CME on Comprehensive Diagnostic Work-up of Hematolymphoid Neoplasms organized by the department of Pathology, School of Medical Sciences and Research (SMS&R), Sharda University, Greater Noida on November 04, 2023.

Tanveer N

- Tanveer N. Dixit S, Sharma S, Arora V. Histopathological predictors of severity of fungal infection in cases of post COVID-19 outbreak of rhino orbital cerebral mucormycosis. (Abstract) in proceedings of 71st Annual Conference of Indian Association of Pathologists and Microbiologists organized by the Department of Pathology, All India Institute of Medical Sciences, New Delhi. (Oral paper shortlisted for KC Basu Mallick Award category).
- Tanveer N. Doodani P, PD-L1 immunoexpression in cases of post-COVID-19 rhino- Tanveer N. Soni G, Scaffold for tissue orientation for histopathology specimens. (Abstract) in proceedings of 71st Annual Conference of Indian Association of Pathologists and Microbiologists organized by the Department of Pathology, All India Institute of Medical Sciences, New Delhi. (Oral paper-Techniques and innovations).

Jain P

- Jain P, "Lichenoid tissue reaction pattern/ interface dermatitis" on Basic Dermatopathology CME for post graduates organized by department of pathology UCMS in collaboration with department of dermatopathology RML hospital on October 15, 2023

Inter-Institutional Collaboration (National/International)

- PG students are sent to R&R hospital, Delhi for Autopsy training
- One student came from Russia for Observership in Hematology under the aegis of EAFO Hematology Forum, 10-24th December, 2022.

Extension and outreach activities

Department organised approx 30 blood donation camps and carried out 2796 donations this year.

Number of M.D/M.S/Ph.D. Degrees awarded:

M.D. Degree awarded- 14

PAEDIATRICS (UCMS)

Major Activities and Achievements

All faculty actively participated in Child Health programmes especially Infant and young child feeding, immunization. Specialized services for management of thalassemia, certification of disability, essential and tertiary newborn care and many more are being provided to population of northeast Delhi and western UP. Outborn nursery was upgraded with point of care ultrasound. Dr Vikram, Associate Professor received

‘Young researcher award’ in Pediatric conference of North India. Postgraduates Dr Vaishali Sharma and Dr Jahanvi Srivastava received Late Kusum Pandit Memorial Award for best thesis. Prestigious National oration of IAP was awarded to Dr Piyush Gupta. Dr Dheeraj Shah was appointed Director National Institute of Health and Family Welfare. Quality care improvement projects and hospital information management systems were upgraded.

Honours/Distinctions

Dr Piyush Gupta received outstanding Faculty Award 6 October 2023.

Dr. A Aggarwal was felicitated by Indian Academy of Pediatrics with Dronacharya Award for mentoring the winning team of IAP quiz January 2024.

Dr Dheeraj Shah was selected by the Appointment Committee of Cabinet (ACC) as the Director of National Institute of Health & Family Welfare, an apex technical institute and think tank for the promotion of health and family welfare programmes in the country, April 2023.

Dr. P. Dewan was appointed Editor-in-Chief for Indian Pediatrics, official journal of the Indian Academy of Pediatrics for 2024-2026 wef 1/1/2024.

Publications

Aggarwal, A., Maroof, K.A., Patra, S., Shah, D. (2024) Effect of COVID-19 Lockdown on Maternal and Infant Healthcare Services in an Urban Resettlement Area of East Delhi. *Cureus* 1 (16) e52156

Aggarwal, A., Gupta N., Shah, D. (2024) Takayasu Arteritis in an Adolescent Girl With Celiac Disease. *UCMS Journal of Medical Sciences* 1, 40-42

Alonso, G.T., Harit, D. (2024) Continuous Glucose Monitoring and Dietary Assessment Unveils Challenges and Opportunities in School Age Children with Type 1 Diabetes in the School and at Home. *Indian Pediatrics* 61, 126-127

Choudhary, F., Rani, P., Kotru, M., Gomber, S., Dewan, P., Gupta, R., Sikka, M., More, S. (2023) Correlation of T-regulatory Cells and Iron Status in β -Thalassemia Major Patients. *Cureus* 2(15) e35084

Das S, Meena RK, Shah D, Almeida EA, Mehndiratta M, Gupta P. (2023) Children with severe acute malnutrition have high rates of bone resorption: A cross-sectional comparative study. *Nutr Res* 117, 66-72

Datta, V., Srivastava, S., Lalwani, K., Garde, R., Patnaik, S.K., et al. (2023) Creating and sustaining a digital community of practice for quality improvement in South-East Asia during the COVID-19 pandemic. *BMJ Open Quality*

Dewan, P., Jain, P., Trivedi, M. (2023) Childhood Cancer In India: Miles To Go Before We Sleep! *Indian Pediatrics* 12 (60) 1032-1034

Gupta, P., Nagesh, K., Garg, P., Thomas, J., Suryawanshi, P., et al. (2023) Evidence-Based Consensus Recommendations for Skin Care in Healthy, Full-Term Neonates in India. *Pediatric Health Med Ther.* 14, 249-256

Kumar, N., Allyhan, P., Aggarwal, A. (2024) Effect of Covid pandemic on immunization status of children in tertiary care Hospital of North India: reason for partial and non-immunization a cross-sectional study. *J Health Popul Nutr.* 1 (43) 8

- Kumari, N., Gomber, S., Dewan, P., Narang, S., Ahmed, R. (2023) COVID-19 antibody response in patients with thalassemia. *Cureus* 6 (15) e40567
- Kumar R, Gupta R, Dewan P, Kashyap B, Kotru M. (2024) Raised circulatory T regulatory cells in paediatric tuberculosis – An environment for bacterial persistence? *Ind J Tuberc* 1 (71)
- Mehta, K., Kaur, A., Banerjee, P., Gupta, P., Thacker, N., Saxena, V., Sheth, A. (2023) Carotid Intima-Media Thickness and Metabolic Complications in Children with HIV on Antiretroviral Therapy: A Cross-Sectional Study. *BMJ Paediatr Open.* 1 (7) e002165.
- Narang, M., Shah, D., Narang, S., Gupta, N., Upreti, L. (2023) Ultrasound Guided Aspiration in Addition to Antibiotics for Treatment of Liver Abscess in Children: A Randomized Controlled Trial. *Journal of Gastroenterology and Hepatology* 38(12), 2070-2075
- Salhotra, R., Tyagi, A., Rautela, R.S., Chauhan, J., Dolma, L., Sharma, A., Batra, P., Srivastava, H. (2023) Efficacy of fixed-dose phenylephrine bolus for treating post-spinal hypotension: Comparison between pre-eclampsia and normotensives. *J Anaesthesiol Clin Pharmacol.* 3 (39) 451-457
- Singh, A., Dabas, A. (2023) USPSTF and ISPAD Guidelines on Screening for Prediabetes and Type 2 Diabetes in Children and Adolescents. *Indian Pediatrics* 7 (60) 581-84
- Solanki, A., Batra, P., Bhaskar, V., Harit, D. (2023) Comparison of Emergency Severity Index Version 4 and Modified Pediatric Early Warning Score as Triage Models in the Pediatric Emergency of a Tertiary Care Public Sector Hospital. *Indian Pediatrics* 11 (60), 917-921
- Sharma V., Khalil, S., Shah, D., Gupta, P. (2024) Diagnostic Accuracy of Waist Circumference and Waist-to-Height Ratio for Moderate and Severe Acute Malnutrition in Under 5 Children. *Indian Pediatrics* 61(7), 643-648
- Verma SK, Shah D, Singh A, Singh PK, Das S, Gupta P. (2023) Immunogenicity of measles-rubella vaccine administered under India's Universal Immunization Program in the context of measles-rubella elimination goal: A longitudinal study. *Indian J Med Res.* 4 (157), 250-258
- Yadav, K., Batra, P., Bhaskar, V., Aggarwal, A., Banerjee, B.D., Kumar, H., Sharma, T. (2023) Genetic Expression of CYP2B6 Gene in Phenobarbitone Responder and Non- responder Neonates. *Indian Pediatrics* 3 (60) 235-236

Research Projects

- ICMR, Dr Sumaira Khalil, Role of Levocarnitine supplementation in Recovery of Children with Complicated Severe Acute Malnutrition: A Randomized Double blind Placebo Controlled Trial, 70,70,623.
- WHO, Dr Dheeraj Shah, Rapid Assessment of WHO NPSN Transitioning from Polio to Strengthening Public Health System in India, 41,155 Lakh.
- MRU UCMS, Dr Pooja Dewan, Effect of Anti-retroviral Therapy on Immunosenescence in Children Living with HIV, 1,40,000.
- BIOLOGICAL E, Dr Manish Narang, A single blind randomised active-controlled phase-III study to evaluate immunogenicity, safety, tolerability of a candidate 14-valent pneumococcal polysaccharide conjugate vaccine administered to 6-8 weeks old Indian infants at 6 weeks, 14 weeks and 9 months of age (2+1 alternative dosing schedule), 3,50,000.

Seminars Organized

Dr. Vikram Bhaskar, Associate Professor, World Asthma Day, 08-05-2023

Seminar/Conference Presentations

Dr. P. Gupta was Lead Faculty: Workshop on “Manuscript Writing” Research Cell. AIIMS, Guwahati. 1-2 April 2023.

Dr. Anju Aggarwal, chaired a session on “ Genetics in Autism” on 1st December 2023 at 8th Annual Conference Symposia of the Society for Indian Academy of Medical Genetics 1-3rd December 2023 at Leela Gururgram.

Dr. Dheeraj Shah, WHO GDG meetings on Consolidated Recommendations for the Management of Common Childhood Illness: Evidence for update of Pocket Book & IMCI organized by World Health Organization, Geneva, Switzerland (Attended virtually).

Dr. Dheeraj Shah was Chairperson, Stakeholders Consultative Workshop for Implementation of Public Health Emergency and Disaster Management (PHEDM) Tier III Training", New Delhi.

Dr. Purna Batra delivered guest lecture at EMIndia 2023, DY Patil University, Pune as distinguished speaker.

Dr Pooja Dewan was invited in Panel Discussion on Building Research Capabilities for UGs and PGs in Pediatrics at Pedicon, 61st National Conference of Indian Academy of Pediatrics held at Kochi, Kerala on 27th January 2024.

Dr Ravi Sachan was invited as 1. Guest Speaker for the annual convention of NNF Punjab state “PUNJAB NEOCON 2024” on 26th March, Organized by Satluj Association of Neonatology.

Dr. Aaradhana was the judge for Sarla Vaishnavi Award at PCNI, Delhi held on 16/9/2023

Dr. Sumaira Khalil was chairperson to chair a session on “Monitoring and management of Pediatric shock: The shifting paradigm” in PCNI, Delhi from 16-17 th September 2023.

National/International MoUs Signed

MoU signed between GTB Hospital and Delhi State Cancer Institute for exposure in Radiation Oncology for 4 weeks duration per year for FNB trainees in Pediatric Hematology Oncology (under the aegis of National Board of Examinations), for the period 1/9/23 to 31/8/26.

MoU signed between GTB Hospital and PGICH, Noida for exposure in Hematopoietic Stem Cell Transplantation for 4 weeks duration per year for FNB trainees in Pediatric Hematology Oncology (under the aegis of National Board of Examinations), for the period 1/9/23 to 31/8/26.

Other Inter-Institutional Collaboration

Shah D

Member, World Health Organization (WHO) Guideline Development Group for the Consolidated Recommendations for the Management of Common Childhood Illness: Evidence for update of Pocket Book & IMCI

Chairperson, ICMR Expert Committee for Technical Evaluation of proposal titled “Develop and evaluate effectiveness of providing appropriate take home foods in combination with behavior change interventions to reduce child undernutrition in selected districts of six states in India” 2024

Extension and Outreach Activities

Dr. S Srivastava

Presently Holding Honorary Post of ADVISOR to the “Nationwide Quality of Care of Network “ (NQOCN), a voluntary technical body of experts assisting GOI MOHFW, WHO, UNICEF, & various state NHMs in implementing national Quality improvement and accreditation programs in maternal and newborn health.

Dr. R Sachan

Led faculty for several “NEOQiP” Programs organized by NNF at Delhi, Kashmir, and Lucknow.

Faculty Strength

Senior Professor/Professor/Director: 3

Associate Professor: 5

PAEDIATRICS (MAMC)

Major Activities and Achievements

The Department of Pediatrics continued to provide Under-graduate and Post - Graduate medical education. Faculty members continued to supervise post - graduate dissertation and continued basis research in Pediatrics. The department also actively participated in all govt. of India programme for the welfare of children.

Publications

Krishna, G.M., Dabas, A., Mantan, M., Kumar, M. A., Goswami, B. (2024) Adrenocortical suppression in children with nephrotic syndrome treated with corticosteroids. *Pediatr Nephrol*, 39(6),1817-1824

Muralidhar, A.P., Mahajan, A., Mantan, M. Agarwal A. (2024) Acute Kidney Injury in Children Hospitalized with Unoperated Structural Congenital Heart Disease. *Indian J Pediatr*

M., A.K., Mantan, M. & Mahajan, B. (2024) Serum apolipoproteins (apoA-1, apoB, and apoB/apoA-1 ratio) for early identification of dyslipidemia in children with CKD. *Pediatr Nephrol* **39**, 849–856

Kumar, K., Singh, R., Mantan, M. (2024) Rare Central Nervous System Infection in an Infant with Immunodeficiency. *Indian Journal of pediatrics* 4 (91), 412

Mishra, S., Mishra, D., Mahajan, B., Mantan, M., & Khan, A. M. (2023) Effect of daily vitamin D supplementation on serum vitamin D levels in children with epilepsy receiving sodium valproate monotherapy: a randomized, controlled trial. *Indian Journal of Pediatrics* 5 (90), 450-45

Bhinder, O.S., Swarnim, S., Mantan, M., Dabas, A., Ahlawat, R.S. (2023) Chronic Kidney Disease and COVID-19: Outcomes of hospitalised adults from a tertiary care centre in North India. *Med J Armed Forces India*. 79 (S1), S68–74

Dabas, A., Kukreti, N., Shah, D., et al. (2023) Cathelicidin Antimicrobial Peptide (CAMP) and Its Correlation with Serum 25 Hydroxy Vitamin D in Under-Five Children with Pneumonia. *Ann Natl Acad Med Sci (India)* 59 (3) 170-173

Research Projects

ICMR, Dr. M. Mantan, Pediatric Chronic Kidney Disease program: identification of biomarkers by serum and urinary metabolonomics for early identification of progression, 58 lakhs.

GNCT Delhi, Dr. M. Mantan, Serosurvey of SARSCOV2 antibodies in children & adolescents with renal disorders, 1.2 lakhs.

Indian Council of Medical Research , Dr. A. Dabas, Pituitary Function Assessment after Traumatic Brain Injury in Children: A Prospective Cohort Study, 10.89 lakh.

RBSK, NHM, Dr. M. Juneja, Development of an intervention protocol for children with Autism Spectrum Disorder aged 6 – 12 years, over 10.00 Lakh.

ICMR (Indian Council of Medical Research), Dr. Seema Kapoor, “National Registry for Rare and other inherited disorders”, more than 10.00 Lakh.

Conferences Organized

CME on “Pediatric renal and Metabolic Disorders”, 03-11-2023, GNCT Delhi/MAMC

CME on Pediatric renal and metabolic disorders, 04-11-2023, Intramural grant, Govt NCT Delhi

Primary Immunodeficiency CME, 06-04-2023, PID society of India

Seminar/Conference Presentations

Dr. Mukta Mantan delivered a talk on “ Cystic Kidney Diseases in Children” 30th June 2023, Kidneys 2023-Dr. Georgi Abraham 1st annual oration, Chennai.

Dr. Aashima Dabas participated in Panel discussion UG medical Education, 13-15 Oct 2023, 10th National Conference in Pediatric Education, Karamsad, Gujarat.

National/International MoUs Signed

Dr. Aashima Dabas received Clinical Fellowship, from European Society of Pediatric Endocrinology, Manchester, UK, 22 May 2023 till 22 August 2023.

Faculty Strength

Senior Professor/Professor/Director: 8

Associate Professor: 7

Assistant Professor:	1
Ad-hoc:	1

PHARMACOLOGY (LHMC)

Major activities and achievements

The faculty and post graduate students of the department presented papers in national and international conferences. A total of 6 research papers have been published in peer reviewed PUBMED indexed national and international journals. Dr. H.S Rehan, Director-Professor of the department, served as a member of subject expert committee of CDSCO in various disciplines, dissection monitoring committee of UGC. Dr. Lalit Kumar Gupta, Director-Professor and Head of the department, served as a member of subject expert committee of CDSCO in various disciplines. The department in collaboration with IPC Ghaziabad is participating in the Pharmacovigilance Programme of India and is regarded among the top five national centres in terms of adverse drug reaction monitoring.

Publications:

Total number in indexed journal: 6

1. Sood, P., & Tanwar, K. (2023). ASSESSMENT OF KNOWLEDGE, ATTITUDES AND PRACTICES OF MEDICAL STUDENTS REGARDING THE DRUG ADDICTION IN PUNJAB, INDIA. *Int J Acad Med Pharm*, 5(1), 130-133.
2. Shekar, A., Mittal, G., Chandane, R. D., Suranagi, U.D. (2023). A prospective randomized open-labeled parallel group study to compare the efficacy of oral terbinafine versus oral terbinafine plus oral fluconazole in dermatophyte infections. *Asian J Pharm Clin Res*, 16(5), 104-108.
3. Ganjikunta, R. K., Kadali, R. P., & Arora, T. (2023). Evaluation of Cutaneous Adverse Drug Reactions Reported in a Teaching Hospital of Coastal Andhra. *Biomedical and Pharmacology Journal*, 16(2), 1113-1119.
4. Chhabra, R., Gupta, R., & Gupta, L. K. (2024). Sugammadex versus neostigmine for reversal of neuromuscular blockade in adults and children: a systematic review and meta-analysis of randomized controlled trials. *Current Drug Safety*, 19(1), 33-43.
5. Solanki, B., Goel, R., & Gupta, L. K. (2023). Benzodiazepines Reduce Blood Pressure in Short Term: A Systematic Review and Meta-analysis. *Current Hypertension Reports*, 25(10), 335-341.
6. Zorampari, C., Gupta, R., & Gupta, L. K. (2023). Effect of Liraglutide on Weight Loss and BMI Among Patients Who Are Overweight and Obese with Type 2 Diabetes: A Systematic Review and Meta-analysis. *EMJ*, 8(4), 124-134.

Journals (Published/ Teachers as editorial board members)

Research projects

Association of serum metallic ion levels in patients with total joint arthroplasties with their adverse effects: A comparative cross-sectional study. By Dr. Jasbir Singh

Association of genetic polymorphism of APOA1, PCSK9, APOE with response to statin therapy in dyslipidemic patients: A prospective observational study. By Dr. Aman Singh

Effect of anti-epileptic drugs on serum biomarker S100B in persons with epilepsy By Dr. Shivaraj

Proportion of risk-stratified patients with dyslipidemia on lipid-modifying treatments achieving their low-density lipoprotein cholesterol target: A prospective observational study By Dr. Rakshit Dahiya

Serum levels of homocysteine in acne vulgaris patients receiving oral isotretinoin therapy: A prospective observational study. By Dr. Amit Pandurang Rokade

Serum Eosinophil Derived Neurotoxin levels in patients of bronchial asthma Dr Bolke Tushar Diliprao

Ongoing audit of prescriptions in both IPD/OPD of Lady Hardinge Medical College with appropriate interventional strategies and Patient safety interventions through Pharmacovigilance programme of India: Dr. H.S.Rehan, Dr. Lalit Kumar Gupta (Guide and Co-guide)

Seminar/conference presentations:

Dr. Lalit Kumar Gupta, Panelist in panel discussion on “Pharmacological considerations in AMR development” in the conference on Anti microbial stewardship program 2023 organised by Department of Medicine, LHMC

Dr. Indranil Banerjee, Trainer on “Medicus conventus workshop” in the conference Medicus conventus-2023 organised by LHMC, New Delhi

Dr. Tarun Arora, Delegate/MPS Clinical Trial Summit in an online conference organised by ICMR on August 5-6, 2023

Number of PhD/M.Phil/ MD awarded

MD (Pharmacology) awarded to two students.

Number of faculty:

Professor: 5

Associate Professor: 4

Any other significant information:

Dr. H.S. Rehan is appointed as Member of various committees to review the projects/new drug proposals at CDSCO, Ministry of Health & F.W. and ICMR, supervisor in Pharmacovigilance Programme of India, National Tuberculosis Control Programme, AEFL.

Dr. Lalit Kumar Gupta served as NBEMS appraiser for NEET SS Exam held on September 29-30, 2023. Chairman of the committee to examine the issue of safety and efficacy of FDC of etodolac + paracetamol, constituted by DTAB.

The department in collaboration with IPC Ghaziabad is participating in the Pharmacovigilance Programme of India and is among the top five national centres in terms of Adverse drug reaction monitoring.

PHARMACOLOGY (MAMC)

Major Activities and Achievements

The Department conducts academic programs for MBBS, Postgraduate, BDS, and B.Sc Nursing students. This year 2 elective postings on Drug discovery and development and Pharmacovigilance were introduced. The Department, a Regional Training Center for Pharmacovigilance, has over seventy ADR monitoring centers under it. We reported 1543 ADR this year.

The department is a centre for Antimicrobial Drug Utilization Surveillance, part of the National Antimicrobial Surveillance Program. It consistently reports antimicrobial consumption data to the National Centre for Communicable Diseases. Additionally, it's establishing Therapeutic Drug Monitoring laboratory services at Lok Nayak Hospital, prioritizing monitoring anti-epileptic drugs to improve patient care.

The Department contribute to drafting Delhi State government's essential medicines list, ensuring access to quality medications. Dr. Vandana Roy, as Committee Member Secretary, plays a key role in public health initiatives.

Honours/Distinctions

The Department of Pharmacology has earned recognition as one of India's premier Pharmacovigilance centers. It was ranked among the top ten Adverse Drug Reaction Monitoring centres of the country.

Dr. Vandana Roy was awarded a degree in MBA in Health Care Administration from Faculty of Management Studies, University of Delhi. She was awarded a silver medal.

Publications

Kumar, S., Roy, V. (2023) Repurposing drugs: An empowering approach to drug discovery and development. *Georg Thieme Verlag* 73 (1), 481-490

Sanjeev Khanth P E, Mishra, A., Mandal, S., Chawla, S., Kalra, B. S. (2023) Hepatoprotective potential of *Phyllanthus niruri* and *Andrographis paniculata* in isoniazid-rifampicin induced hepatotoxicity in rats. *Indian Journal of Tuberculosis* (in Press)

Singh, V. J., Roy, V., Singhal, S., Daga, M.K. (2023) Pharmacoeconomics of medicines used for geriatric individuals in a tertiary care hospital in Delhi. *Medknow* 159 (2), 143-152

Balakumar, K.E., Egambaram, V., Tayal, V. (2024) Lithium Induced Amenorrhea: A First Case Report. *Acta Medica Lithuanica* 31(1), 134–137

Roy, V., Tayal, V., Haque, I., Ahmad, J., Verma, K., Singh, V. (2023) Pharmacovigilance Activities in Maulana Azad Medical College and Associated Hospitals A Step towards Patient Safety. *Medknow* 9 (1), 64-79

Agarwal, A., Sharadhi, H.B., Mathur, S.B., Kalra, B.S., Arora, R., Khanna, A., Rajeshwari, K. (2023) Adverse drug reactions in children and adolescents on daily antitubercular regimen: An observational longitudinal study. *Indian J Tuberc* 70, S76-S81.

Gahlot, R., Kumar, S., Garg, S., Chawla, S., Kalra, B.S. (2023) Efficacy and safety of Saroglitazar and Fenofibrate in the treatment of diabetic dyslipidaemia: A pilot study. *Indian Journal of Physiology and*

Pharmacology 67 (1) 15-20

Rai, N., Chandel, S., Shetty, M. K., Rai, G., K., Khanna, S., Jain, K. (2023) Risk Stratification of COVID-19 Patients based on Proposed Simple Clinical Parameters Score: A Retrospective Observational Study. JCDR 17 (1) 14

Research Projects

MAMC, Dr. Vandana Roy, To evaluate the protective effect of Azadirachta indica leaf extract on chemically induced colon cancer in rats, INR 300 000

MAMC, Dr. Vandana Roy, Effect of Sulforaphane in Adenine introduced chronic renal failure in rats, INR 300 000

MAMC, Dr Bhupinder Singh, Attenuation potential of Remogliflozin on non-alcoholic fatty liver disease in a rat model, INR 300 000

MAMC, Dr. Girish Meshram, To study the neurobehavioural toxicity and histopathology effects of transfluthrin in rat, INR 300 000

IIIT Delhi, Dr. Manu Kumar, In-silico AI model to predict the properties of a new drug , INR 600 000

Conferences Organized

Improving Availability, 6th Workshop on Rational and safe use of Medicines in Public Health Facilities in Delhi , 12-03-2024.

Ninth Workshop on ‘Pharmacovigilance for patient safety’ for doctors, 21-09-2023.

Third CNE workshop on ‘Pharmacovigilance for patient safety Nurses, 20-09-2023.

The Department conducted Basic online workshop for ADR monitoring centers in Delhi NCR in collaboration with Indian Pharmacopoeia Commission, Ministry of Health & Family Welfare, Government of India & AMC, Maulana Azad Medical college, New Delhi, 27-07-2023.

The Department in collaboration with Indian Pharmacopoeia Commission, Ministry of Health & Family Welfare, Government of India, conducted Advanced training workshop on Pharmacovigilance, 22-02-2024.

Seminar/Conference Presentations

Dr. Manu Kumar was invited speaker for the topic “Developing tools of AI for healthcare” ,Conference on Annual Therapeutics Congress 2024,. Organized by Department of Pharmacology and medicine , Nair Hospital Mumbai held on 26th Jan 2024

Dr. Manu Kumar was invited speaker for the topic “AI in drug discovery and development", Conference AICON 2023 ,. Organized by Department of Pharmacology GMC Surat on 21st Sept 20

Other Inter-Institutional Collaboration

Collaboration with IIIT Delhi for the funded project title” In-silico AI model to predict the properties of a new drug”

Number and percentage of students placed

Five- 100%

Extension and Outreach Activities

In its community outreach efforts, the Department collaborated with the Community Medicine Department to enhance drug safety awareness, reaching 2040 individuals through talks, posters, and street plays during the National Pharmacovigilance Week . Nukkad nataks , health talks, poster making , walks through the community were organized in the five peripheral health care centres attached to Maulana Azad Medical college. The same were organized in OPDs of Lok Nayak Hospital, GIPMER , MAIDS and GNEC hospital

Faculty Strength

Senior Professor/Professor/Director: 4

Associate Professor: 2

Assistant Professor: 4

PHARMACOLOGY (UCMS)

Major Activities and Achievements

A new CAL laboratory was established in the department of pharmacology to facilitate students to learn effects of drugs in a simulated environment using computer based software. AETCOM sessions on fundamentals of communications and bioethics were designed with special reference to patient autonomy in health care decision making.

Publications

Arockiaraj, N., Gupta, R., Ahmad, R., Halder, S., Bhatia, M.S. (2023) Sertraline with desvenlafaxine and sertraline with mirtazapine as treatment initiation in MDD patients with moderate to severe depression and effect on inflammatory markers. *Int J Psychiatry Clinical Practice* 29, 1-8

Kumar, A., Halder, S., Srivastava, S., Gupta, R. (2023) Increased Pill Burden and Adverse Effects of Psychotropics Correlated with Poor Quality of Life and Medication Non-adherence: A Cross-sectional Drug Utilization Study at a Tertiary Care Hospital in Delhi during COVID-19 Pandemic. *J Assoc Physicians India* 9 (71), 14-18

Zorampari, C., Gupta, R., Gupta, L.K (2023) Effect of liraglutide on weight loss and BMI among patients who are overweight and obese with type 2 Diabetes: A Systematic Review and Meta-analysis. *European Medical Journal* 1 (8), 124-134

Khan, P., Venkatesh, S., Parveen, R., Mishra, P., Jain, S., Agarwal, N. (2023) Longitudinal efficacy of Ertugliflozin in type 2 diabetes mellitus: a meta-analysis of randomized controlled trials. *Expert Opinion on Pharmacotherapy* 18 (24) 2199-2210

Jain, AK., Jain, N., Jain, S. (2023) Perception of undergraduate medical students and faculty towards team-based learning as a teaching tool- A Cross-sectional study. *Journal of Clinical and Diagnostic Research* 4

(17) 1-5

Singh, S. K., Singh, S., Kumar, R., Rana, P., Sharma, A., et al. (2023) Influence of Vitamin D Level on Inflammatory and Prognostic Markers in COVID-19 - A Retrospective Study. *Recent advances in food, nutrition & agriculture* 3 (14) 190-196

Kumari, M., Jha, P.K., Khan, M.A., Saifi, A., Arora, V.K., Halder, S. (2023) Protective effects of Majun Brahmi on aluminium-induced cognitive impairment in rats: Biochemical and behavioral changes. *Asian Journal of Medical Sciences* 9 (14) 42-45

Nivatti, J., Halder, S., Goel, A., Gupta, R., Wason, R. (2023) Elderly Population Has Higher Prevalence of Polypharmacy Associated with Poor Quality of Life and Low Compliance after Recovery from COVID-19. *J Midlife Health* 4 (13), 288-293

Bhardwaj, A., Gupta, R (2023) Drug-induced thrombocytopenic purpura: a systematic review and meta-analysis of case reports. *EMJA Immunol* 1 (8) 70-79

Hotha, P.P., Gupta, R (2023) Unusual Extra Pulmonary Clinical Manifestation as Initial Presenting Feature of COVID-19 and its Management: A Systematic Review of Case Reports. *J Pharm Care* 3 (11), 173-187

Juneja, S., Rana, P., Manoj, S.V., Kalia R., Singh, R.P., (2023) Appropriateness of Proton Pump Inhibitor Use in Hospitalized Patients: A Cross Sectional Study in a Tertiary Care Hospital in North India. *J Pharm Care* 2 (11), 61-65

Seminar/Conference Presentations

Dr. Rachna Gupta chaired a session in conference on Current trends in nitric oxide research: a translational approach, VPCI, Delhi on 5th Apr. 2023.

Dr. Sumita Halder was Resource faculty at the Thesis writing workshop, MEU, UCMS, Delhi on 1st -5th Dec 2023.

Dr. Proteesh Rana was speaker at the 4th CNE workshop on “Pharmacovigilance for patient safety”, MAMC, New Delhi, on 20th Sept. 2023

Dr. Proteesh Rana gave oral presentation at IMMUNOCON-50, AIIMS, New Delhi, 5th- 8th Oct. 2023.

Faculty Strength

Senior Professor/Professor/Director: 3

Associate Professor: 4

PHYSIOLOGY (LHMC)

Research schemes/projects

Non Funded Projects: Departmental Research Project

Dr. Madhulika Monga (PI), Dr Anil Gurtoo, Dr Anup Mohta, Dr Sunita Mondal, Dr Ritu Singh (Co-PI) on “Perception of stakeholders regarding facilitators and barriers in the implementation of Continuous Quality Improvement (CQI) measures in CBME”

Dr. Madhulika Monga (PI), Dr Sunita Mondal, Dr Ghotekar (Co-PI) on Effect of acute exercise on cognition in young adults of different fitness levels

STS Projects

Sneha Choudhary, project on “Effect Of Indian Music and Rhythmic Auditory Stimulation on Motor and Non-Motor Symptoms of Parkinson’s Disease”. Dr. Sunita Mondal (PI); Dr Madhulika Monga, Dr Alvee Saluja (Co-PI)

Publications:

Rajendran, D., Bandhu, R., Gautam, S., Dhamija, R. K., & Mondal, S. (2023). Auditory Evoked P300 Potential in Patients With Parkinson’s Disease. *Cureus*, 15(9).

Kapoor, S., Saluja, A., Margekar, S. L., Agarwal, M., Mondal, S., & Dhamija, R. K. (2023). Neurogenic Supine Hypertension and Cardiovascular Autonomic Dysfunction in Patients with Parkinson's Disease. *Annals of Indian Academy of Neurology*, 26(1), 33-38.

Seminar/Conference Presentations

Dr. Sunita Mondal & Dr. Rajiv Bandhu participated as a speaker in “Hands on experience in formulating internal assessment in recent updates and advances in physiology education training programme” on December 15, 2023 organised by MAMC, New Delhi

Dr. Madhulika Monga delivered a lecture on “CME on Soft Skills” on December 08, 2023 organised by Department of Obstetrics and Gynaecology, LHMC

Faculty Strength

Director Professor & HOD:	01
Director Professor:	02
Professor:	07
Associate Professor:	03

PHYSIOLOGY (MAMC)

Major Activities and Achievements

Recent Updates & Advances in Physiology Education - Training Programme for residents was organized by the Department of Physiology on 14-15 December, 2023.

Publications

Jain, N., Bedi, M., Varshney, V.P. (2023) A study of post exercise hypotension in normotensive offspring of hypertensives after acute exercise. *Indian J Med Res.* 158(3), 311-316.

Banerjee, A., Ahmad, A., Bhalla, P., Goyal, K. (2023) Assessing the Efficacy of ChatGPT in Solving Questions Based on the Core Concepts in Physiology. *Cureus.* 15 (8):e43314

Nigade, P. S., Varshney, V. P., Bedi, M. (2023) Effect of acute exercise on Cardiovascular and Serum cortisol reactivity to mental stress in offspring of hypertensives. *MAMC Journal of Medical Sciences* 9 (1), 1-6

Seminars Organized

Dr. Aarti Sood Mahajan, Dr. Preeti Jain, Yoga and Health on International Yoga day, 21-06-2023

Conferences Organized

Recent Updates & Advances in Physiology Education -Training Programme for residents held on 14-15 December, 2023, MAMC, New Delhi: Organizing Secretary-Dr. Aarti Sood Mahajan., 14-12-2023.

Seminar/Conference Presentations

Dr. Aarti Sood Mahajan delivered a talk on Integrating domains of Learning for effective and innovative teaching and assessment of practical physiology in Recent Updates & Advances in Physiology Education - Training Programme for residents 14-15 December, 2023.

Dr. Preeti Jain attended and participated in Recent Updates & Advances in Physiology Education -Training Programme for residents 14-15 December, 2023 and delivered a talk on Analyzing Quantitative questionnaire

Other Inter-Institutional Collaboration

The department collaborates with other institutes like NBE, AIIMS, BSA, VMMC and other state level universities. Our faculty are examiners and participate in research activities, conferences and administrative capacity.

Faculty Strength

Senior Professor/Professor/Director: 8

Associate Professor: 4

PSYCHIATRY & DRUG DE-ADDICTION (LHMC)

Major activities and achievements

100 % passing rate of MD (Psychiatry) students for the examination held in April 2023

Publications-

Verma, P., Raj, D. S., Sinha, R., Kukreti, P., Pemde, H., Pawar, S. M., ... & Kumar, P. (2023). Prevalence and Risk Factors of Undernutrition among Infants Less Than Six Months: A Hospital Based Cross-Sectional Assessment. *Indian Journal of Pediatrics*, 90(10), 1047-1047.

Ransing, R., Raghuveer, P., Mhamunkar, A., Kukreti, P., Puri, M., Patil, S., ... & Deshpande, S. N. (2023). COVID-19 vaccine confidence project for perinatal women (CCPP)—Development of a stepped-care model to address COVID-19 vaccine hesitancy in low and middle-income countries. *Frontiers in Public Health*, 10, 1100046.

Sharma, M., Shankar, P., Kukreti, P., & Kataria, D. (2023). A rare case report of pseudo-pregnancy in a menopausal female. *Indian Journal of Psychiatry*, 65(7), 789-792.

Kukreti, P., Ransing, R., Raghuveer, P., Ramesh, O., Kataria, D., Prasad, S., ... & Kukreti, P. (2023, January). Psychosocial Determinants Of Covid Vaccine Hesitancy And Stage Of Motivation In Lactating Women. *Indian Journal of Psychiatry*, 65, S67-S67.

Kumar, P., Deshpande, S. N. (2024). Development of a Primary Healthcare Worker-based Intervention to Address Psycho-social determinants of COVID-19 vaccine hesitancy among Perinatal Women in Low and Middle-income countries. *Journal of Health Management*, 26(4), 106234

Journals

Journal of Advanced Research in Psychology & Psychotherapy (E-ISSN: 2581-5822). Prof. (Dr.) Dinesh Kataria (Editor); Dr. Om Sai Ramesh V & Dr. Prerna Kukreti (Joint Editor)

Research projects

Dr. Shiv Prasad, Co-Investigator, Centre for Advance Research and Excellence: (CARE). Mental Health and Neuromodulation project to evaluate the effect of intermittent theta burst stimulation on predominant negative and cognitive symptoms in individuals with chronic schizophrenia, (fund received by coordinating AIIMS)

Dr Prerna Kukreti (Co-PI) and Dr Om Sai Ramesh V. A multi-centric randomized controlled trial to assess effectiveness of COVID vaccine hesitancy, ICMR, (fund received by coordinating centre BKLWRMC Ratnagiri).

Dr. Dinesh Kataria, Dr Om Sai Ramesh V. A study of sexual dysfunction and marital satisfaction in females with major depressive disorder and anxiety. Non-funded

Dr. Dinesh Kataria, Dr. Ravinder Kumar, Ms Asha Rani. A comparative study on effects of yoga as an adjuvant with standard treatment in depressive disorder. Non Funded

Dr. Dinesh Kataria, Dr. Sajjadur Rehman & Dr. Mini Sharma. A comparative cross-sectional study of pathways to care in persons attending buprenorphine assisted maintenance treatment in community and general hospital settings. Non Funded

STS Projects

Harshita Makhija, Assessment of Attitude & Awareness of Medical and Non-Medical Undergraduates towards non heteronormativity and LGBTQIA+ communities. Supervisor: Dr. Bhavuk Garg

Dr Aadya singal, Economic burden of mental health care of severe mental disorders in service users of a tertiary care hospital in India. Supervisor: Dr Perna Kukreti

Seminar /conference presentations

National

Dr Sumit Rana, presented a paper on “Neuroeconomics of ADHD - Reconceptualizing ADHD as Compromised Economic Agency” in IACAMCON 2023 organised by NIMHANS, Bengaluru

Dr Perna Kukreti presented on “Informed consent” in the conference on Research training in mental health. Indian psychiatric society Research, Training 2023, Mangalore, 30 Jan 2023, organised by Indian psychiatric society

Dr Perna Kukreti, Dr Shiv Prasad, Dr Dinesh Kataria; presented on “Mental Health at Workplace: Promises, Challenges and Solutions” in ANCIPS 2023, Bhubaneswar Symposium organised by Indian psychiatric society

Dr Bhavuk Garg, Dr Perna Kukreti Participated as delegate and presented on “Strengthening Mental Health Services and Care in India” in National Mental Health Program Workshop, organized by National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore

Dr Perna Kukreti was the Panellist in Theme Panel discussion on: ‘Women and Mental Health: Contemporary Paradigms’ in 7th National Symposium on Women and Mental Health and Perinatal Psychiatry, 3 December 2023 organised by Women and Mental Health and Perinatal Psychiatry section, IPS

Dr Perna Kukreti presented on “Perinatal psychiatry and COVID 19: Challenges and solutions”, in National Conference held in BKL Walwalkar Rural Medical College, CME, 8 January 2023

Dr Perna Kukreti, Dr Om Sai Ramesh V, Dr Bhavuk Garg; Presented in National Symposium on “Perinatal mental health care: service delivery models for integration in maternal child health services” 74th ANCIPS on 5 Feb 2023, Bhubaneswar; organised by Indian psychiatric society

Dr Nitin Raut B presented on “The Role of Technology in Geriatric Psychiatry” in National Symposium on Enhancing Mental Health and Well-being in India's Aging Population organised by Indian Association for Social Psychiatry (Raipur), November 24-26

Extension and Outreach Activities

The Department is involved in Community Health Service by holding OPD on every Saturday at Community Health Centre in Kalyanpuri, Delhi.

Since 2015, the Department is running an Opioid Substitution Therapy Centre in collaboration with Delhi State AIDS Control Society near Bangla Sahib Gurudwara, Connaught Place.

Faculty Strength

Director Professor and Head:	01
Professor and Head:	01

Professor:	03
Associate Professor:	01
Senior Specialist:	02

Other significant information

Books /Chapters Contributed

Perna Kukreti, Akanksha Shukla, Bhavuk Garg. Chapter: Mental Health Programmes and Policies. Book: Indian Psychiatry Society @75- a panoramic retrospection. Jaypee Publication, 2023.

Perna Kukreti. Chapter: Perinatal psychiatry. Book: Women Mental Health. Jaypee Publication, 2023.

Subramanyam AA, Raut NB, Singh S, Jaiswal S. Rights of Persons with Disabilities (RPWD) ACT- A relook from the specific learning disabilities (SLDs) perspective. In Specific Learning Disorders: An Indian Perspective. Eds. Subramanyam AA, Vijay Sagar KJ. 2023; 171-185.

Subramanyam AA, Raut NB, Singh S. IPS stands and positions. In IPS @75. Eds Menon Vikas. 2023.

PULMONARY MEDICINE (VPCI)

Major Activities and Achievements

The faculty is involved in individual research and thesis work on different aspects of respiratory diseases as well as conducting postgraduate medical courses of the University namely, DM and MD in Pulmonary Medicine and MSc in Respiratory Therapy. The hospital wing registered 11,050 new patients and 52,150 follow-up patients. There were 04 DM and 15 MD students on rolls during 2023-24. The topics of research studies conducted during the period included – Pulmonary Function and Diffusing Capacity of Carbon Monoxide in Hypersensitivity Pneumonitis: An Observational Study of 152 Patients; Air pollution and its effects on emergency room visits in tertiary respiratory care centers in Delhi, India; Combustion of Biomass Fuel and Chronic Obstructive Pulmonary Disease in Rural Population of India; Exploring the nexus: Asthma prevalence, smoking habits, and medication adherence among urban slum dwellers of Delhi; Pulmonary Sarcomatous Carcinoma Presenting as Massive Pleural Effusion; Assessment of frailty and its predictors in chronic obstructive pulmonary disease; Impact of air pollutants, meteorological factors on pollen counts, and its association with patients emergency hospital visits in the North Delhi region; Role of sleep questionnaires in predicting obstructive sleep apnea amongst interstitial lung diseases patients.

Honours/Distinctions

Dr. Raj Kumar was conferred Outstanding Allergy Scientist Award 2023 from Bengaluru Allergy Foundation Bangalore India on 21st September, 2023

Dr. Raj Kumar was conferred Fellow, Royal College of Physicians of London, 2023

Publications

Goel, N., Goyal, N., Spalgais, S., Mrigpuri, P., Varma-Basil, M., et al. (2023) Initial COVID-19 Severity

and Long-COVID Manifestations: An Observational Analysis *Thorac Res Pract.* 24 (1) 22-28

Kumar, R., Mrigpuri, P., Sarin, R. et al. (2023) Air pollution and its effects on emergency room visits in tertiary respiratory care centres in Delhi, India. *Monaldi Arch Chest Dis*

Spalgais, S., Mrigpuri, P., Ravishankar, N., Kumar, R. (2024) Pulmonary function and diffusing capacity of carbon monoxide in hypersensitivity pneumonitis: An observational study of 152 patients. *Thorac Res Pract.* 25 (2) 51-56

Kumar, R., Gaur, S.N., Agarwal, M.K., Menon, B., Goel, N., Mrigpuri, P., et al. (2023) Indian Guidelines for Diagnosis of Respiratory Allergy. *Indian Journal of Allergy, Asthma and Immunology* 37, 51-98

Kumar, R., Kumar, M., Mavi, A.K. (2023) Cockroach allergy in respiratory allergic patients. *Indian Journal of Allergy, Asthma and Immunology* 36 (2) 63-64

Dutta, S., Goel, N., Kumar, R. (2024) Assessment of frailty and its predictors in chronic obstructive pulmonary disease. *Lung India* 41 (1) 17-24

Rawat, J., Kumar, A., Mrigpuri, P., Jangpangi, D.S., Singh, A.P., Bhatt, R. (2024) Role of single port rigid thoracoscopy in undiagnosed pleural effusion. *Tuberc Respir Dis (Seoul)* 87(2), 194-199

Chowdhary, A., Gupta, N., Wurster, S., Kumar, R., et al. (2023) Multimodal analysis of the COVID- 19-associated mucormycosis outbreak in Delhi, India indicates the convergence of clinical and environmental risk factors. *Mycoses* 66 (6), 515-526

Research Projects

Ministry of Health & Family Welfare, Govt. of India, Dr. Raj Kumar, National Tobacco Quit Line Services, 221.35 (FY 23-24).

Indian Council of Medical Research, Dr. Raj Kumar, ICMR's Network of Pulmonary Fibrosis, 10.23 (FY 23-24).

Indian Council of Medical Research, Dr. Sonam Spalgais, A research cum intervention multi-centric study to strengthen National TB Elimination Programmer (NTEP) by implementing programmer guidelines for TB using novel strategies to address the various challenges faced by the programmer in selected states and specific population/communities in India 14.13 lakhs Indian Council of Medical Research 21.09.2022 31.01.2024 Dr. Sonam Spalgais, 14.13 (FY 23-24).

Conferences Organized

Certificate Course on Diagnosis Of Respiratory Allergy And Immunotherapy, Vpci, 20-22 July 2023.

World No Tobacco Day – 2023, Vpci, 30-05-2023.

Smoking Cessation Cum Contact Program of Certificate Course, Vpci, 27-10-2024.

Certificate Course on Diagnosis of Respiratory Allergy And Immunotherapy, Vpci, 14 To 16 Dec 2023.

47th Workshop on Respiratory Allergy Diagnosis & Management, VPCI, 12 To 16 Feb 2024.

Seminar/Conference Presentations(Maximum 10)

Dr. Raj Kumar delivered Guest Lecture, 'Food Allergy - Diagnosis' during Online sensitization about

Allergy and Immunotherapy from VP Chest Institute, Delhi on 4th April, 2023

Dr. Raj Kumar delivered Guest Lecture, 'Allergy Situation in India, Phenotypes and Etiopathogenesis' during A CME on Allergy – One Airway One Disease organize by Department of Otorhinolaryngology & Head and Neck at Venkateshwara Institute of Medical Sciences on 4th August, 2023.

Dr. Raj Kumar was Special Guest, during Revolutionizing tobacco cessation through Technological Intervention at MAMC Complex, B.S.Z, Maulana Azad Institute of Dental Sciences dt. 6.11.2023.

Dr. Raj Kumar was National Co-Ordinator, Workshop on Allergy & Immunotherapy during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur dt. 06.01.2024

Dr. Nitin Goel. Delivered Faculty lecture on “Asthma Types Unveiled: Navigating the Phenotypes” in 57th Annual Conference Of Indian College of Allergy , Asthma and Applied Immunology, ICCAICON 2023 at Jaipur on 5 January 2024

Dr. Nitin Goel was Chairperson in 47th Workshop on Respiratory Allergy: Diagnosis and Management” at Paintal Golden Jubilee Auditorium, VPCI, University of Delhi on 13 and 15 February 2024

Other Inter-Institutional Collaboration

The department collaborates with major prestigious institutions / hospitals such as AIIMS, RMLH, UCMS, LHMC, RBTB, DIPAS, JIMPER etc.

Number and percentage of students placed

100%

Extension and Outreach Activities

Public Lectures were conducted on topics viz “Respiratory Allergy: Causes, Symptoms, Diagnosis, Treatment and Avoidance on 27th April, 2023, ‘Quit Tobacco, Choose a Healthy Life on 26th May, 2023; ‘Let’s Talk – Sleep Apnea on 28th June, 2023; ‘Winter is Coming: Respiratory Issues Let’s Know It All on 23rd November, 2023.

Faculty Strength

Senior Professor/Professor/Director: 02

Associate Professor: 04

Assistant Professor: 01

Number of M. Phil and Ph.D. Degrees Awarded

Ph.D. : DM (Pulmonary Medicine): 05

M. Phil : MD (Pulmonary Medicine): 02

RADIOLOGY, RADIOTHERAPY, RADIODIAGNOSIS & RADIATION MEDICINE (LHMC)

Major Activities and Achievements

The department conducts clinical as well as research work, under the guidance of our expert and experienced senior faculty. A new 1000mA Digital X-Ray system digital flat panel detector Mars -80 & 3 Tesla, Model - Magnetom Vida, Simens Healthcare GmbH were installed in the department. This has enabled us to improve our patient care services, and also enhance resident education.

Honours/Distinctions

Dr. Shubham Arora, Dr. Bhawna Satija, Dr. Aashna Singal, Dr. R.S. Solanki received Oral Paper IInd Prize at ISHNR titled “Comparison of CECT and DECT in differentiating reactive from malignant cervical lymph nodes in patients with squamous cell carcinoma of head and neck:An initial review”., Nov 2023.

Dr. Mohit Kumar, Dr. R.S. Solanki, Dr. Pooja abbey, Dr. L.H. Ghotekar received Oral Paper Presentation Ist Prize at SCII-CON titled “Role of dual energy ctpa in suspected pulmonary embolism”, Dec 2023.

Publications

Archana, P., Kumar, A., Anand, R. (2023). Surrogate imaging markers of Urodynamic proven bladder dysfunction in posterior urethral valves: A comprehensive evaluation, *Journal of Pediatric Urology*, 19 (4):427

Singh, P., Tomer, S., Amina, N., Anand, R., Yadav, R., Shukla, S. (2023) Comparison of diagnostic performance of simple international ovarian tumor analysis rules versus subjective pattern recognition for triage of adnexal masses. *Int J Reprod Contracept Obstet Gynecol* 12:1730-7.

Chaudhary, V., Bano, S. (2023) Radiology Residents' Dilemma in Present Time! *Indian J Radiol Imaging* 33 576.

Samanta, R., Anand, R., Solanki, R.S., Yadav R. (2023) Ultrasonographic evaluation of pelvic pain in first trimester of pregnancy: a prospective study. *Int J Reprod Contracept Obstet Gynecol* 12, 2417-22

Baloda, R., Sharma, S., Anand, R., Mandal, P., Parakh, N., Katti, B., Singh, V., Chandra, J. (2023) Neurologic Complications in Patients With Lymphoreticular Malignancy: A Descriptive Cohort Study. *J Pediatr Hematol Oncol* 45 (7)

Mishra, C., Abbey, P., Anand, R., Singh, V., Kaur, R. (2023) Cystic lung tuberculosis in children: A series of five cases. *SA J Radiol* 27(1), 2725

Osama, M.A., Gaur, K., Agarwal, K., Yadav, V., Seth, A., Setia, P. (2023) Hearts don't lie: Cardiac tuberculosis diagnosed on fine-needle aspiration cytology. *Tropical Doctor* 53(2), 309-312

Verma, D., Mendiratta, V., Garg, T., Tripathi, S., Tomer, S. (2024) Assessment of Cardiovascular Risk Factors in Women having female pattern Hair Loss. *Indian Journal of Dermatology*

Goel, V., Narula, M. K., Bano, S., Anand, R., Chaudhary, V., Singh, V., Saxena, S. (2024) Lung infections in HIV-infected children: imaging pattern recognition and its correlation with CD4 counts. *Egypt J Radiol Nucl Med* 55, 72.

Conferences Organized

Ultra-Vision- Fetal Imaging , 03-09-2023, IRIA

Seminar/Conference Presentations(Maximum 10)

Faculty Lecture Webinar on ‘Congenital Lung anomalies’. By Dr.Pooja Abbey in ICRI 14th june 2023 lecture on the topic ‘Simplifying the enigma of pediatric chest X rays’.

Dr. Guruling, Dr.Vikas Chaudhary, Dr.R.S.Solanki Oral Presentation 3D Usg spectrum of breast lesions DIU, Dec 23.

Dr. Sumit Kumar, Dr.Pooja Abbey, Dr.Bhawna Satija Oral Paper Pediatric airway imaging: navigating anatomical alcoves and therapeutic vistas. DIU, 2023.

Dr. Ashi Yadav, Dr Bhawna Satija, Dr R.S.Solanki, Dr Tanmaya Talukdar Oral Paper High resolution computed tomography signs (Exuberant Honeycombing, Anterior upper lobe, straight edge, Four corner sign) in connective tissue related Interstitial lung disease (CTD-ILD) Unveiling the enigma, or only a radiologist’s jargon? SCII-CON,Dec 23

Dr.Mohd.Azhar, Dr.Nitesh Meena, Dr.Vikas Chaudhary, Dr.R.S.Solanki Oral Paper Wunderlich syndrome secondary to angiomyolipomas in tuberous sclerosis: A comprehensive case study IRIA monthly meet AIIMS New Delhi, Oct 23

Dr.Nupur Agarwal, Dr.Shaili Tomer, Dr.R.S.Solanki Oral Paper 3rd Prize Evaluation of adnexal lesions using the O-RADS MRI Risk Stratification System-a pictorial review GYAN LAL CME, April 23

Dr Kritika Pahadia, Dr. Shaili tomer, Dr. R. S. Solanki Oral Presentation MRI imaging features of placenta accreta spectrum: a pictorial review GYAN LAL CME, April 23

Faculty Strength

Senior Professor/Professor/Director:	5
Associate Professor:	1
Assistant Professor:	2
Ad-hoc:	1

RADIOLOGY, RADIOTHERAPY, RADIODIAGNOSIS & RADIATION MEDICINE (UCMS)

Major Activities and Achievements

Besides MBBS teaching the Department of Radio-diagnosis is running an undergraduate course B.Sc. (Medical Technology) Radiography, two major postgraduate courses, MD Radio-diagnosis and M.Sc. (Medical Imaging Technology) Radiography. The department boasts of excellent placement of its B.Sc. and M.Sc. (MIT) Radiography students, with many students placed in reputed organizations like Indian Railways, JIPMER Pondicherry, AIIMS New Delhi, DSSSB Delhi, PGI Chandigarh and SGPGI.

Honours/Distinctions

Dr Natasha Gupta received President Appreciation Award at the 76th Annual Conference of Indian Radiological & Imaging Association (IRIA) at Vijayawada, Andhra Pradesh in January, 2024 (for Outstanding and Meritorious services rendered to the IRIA)

Publications

Bhoi, A. K., Grover, C., Singal, A., Tandon, A. (2023) Enthesopathy in patients with nail psoriasis - a cross-sectional evaluation of clinical, onychoscopic and ultrasonographic features. *Indian J Dermatol Venereol Leprol.* 89 (6) 854-861

Rangarajan, K., Aggarwal, P., Gupta, D.K., Dhanakshirur, R., Baby, A., Pal, C. (2023) Deep learning for detection of iso-dense, obscure masses in mammographically dense breasts. *Eur Radiol.* 33 (11) 8112-8121

Khan, H. K., Rathi, V., Shreshtha, S., Tandon, A., & Gupta, A. (2023) CT appearances of gastric injury due to caustic ingestion and associated findings (a study of 30 cases). *Emergency radiology* 4 (30) 539-553

Jat, S.K., Srivastava, A., Malhotra, R., Chadha, M., Tandon, A., Jain, A.K. (2023) Prevalence of lumbosacral transitional vertebra in patients with chronic low back pain: a descriptive cross-sectional study. *Am J Neurodegener Dis* 12 (3) 89-96

Kour, H., Sharma, R., Manhas, J., Sharma, V. (2023) Hybrid Model based on ANFIS with Gray Level Co-occurrence Matrix for Dementia Prediction. *Journal of Scientific Research* 15 (2) 401-420

Mandal, S., Ranga, G.S., Narang, S., Tandon, A. (2023) Acute coronary events in SARS-CoV-2-causal or incidental? *Asian Journal of Medical Sciences* 14 (5) 8-15

Tanwar, S., Jain, S., Rajaram, S., Tandon, A., Gupta, B., Kalra, K. (2023) Detection of Occult Anal Sphincter Injuries in Primipara by 2D Transperineal Ultrasound and its Clinical Association. *Journal of Clinical & Diagnostic Research* 17 (6) QC07-QC11

Yadav, R., Madan, S., Rohatgi, J., Sahu, P.K., Das, S., (2023) Corneal manifestations and treatment among patients with COVID-19-associated rhino-orbito-cerebral mucormycosis. *Indian J Ophthalmol* 71 (1)101-108

Research Projects

ICMR, Dr. Shuchi Bhatt, Development and validation of Artificial Intelligence Tool for Screening/Detection of Pulmonary TB and other lung diseases, 36 lakhs.

Conferences Organized(Maximum 5)

MEDICAMENTUM 2023, 30-10-2023, Conducted workshop for UG students in dept. of Radio-diagnosis
CME on International Day of Radiology organized by the dept. of Radio-diagnosis, UCMS & GTBH, Delhi , 08-11-2023, NA

Multi-disciplinary Interdepartmental educational activities by the Department of Radiology, 12-12-2023, NA

Seminar/Conference Presentations(Maximum 10)

Dr. Shuchi Bhatt was Judge for oral presentations and chairperson, Delhi Imaging Update-2023 in collaboration with Dept. Of Radio-diagnosis & Interventional Radiology, AIIMS New Delhi, JLN Auditorium, AIIMS, New Delhi, 16th & 17th December 2023.

Dr. Shuchi Bhatt- Invited as chairperson in the 4th Annual Conference of Indian Society of Head and Neck Radiology held at Hamdard Institute of Medical Sciences and Research, New Delhi on 8th-19th November.

Dr. Anupama Tandon was invited as Senior Faculty at International musculoskeletal conference 2023. At New Delhi 23rd-24th Sept 2023.

Dr Anupama Tandon presented a paper “High frequency ultrasound in assessment of Nail Psoriasis and onychomycosis: A comparative study” at RSNA, Chicago 26th to 30th november, 2023.

Dr. Anupama Tandon was invited to give a talk at IRIA Shakti summit 2023 women & child imaging conference 6-8 october 2023 on “Assigning dates: role of ultrasound”.

Faculty Strength

Senior Professor/Professor/Director:	3
Assistant Professor:	3
Guest:	5

Number of M. Phil and Ph.D. Degrees Awarded

Ph.D.: 1

SURGERY (UCMS & GTB HOSPITAL)

Major Activities and Achievements

The department is under the process of acquiring Ultrasonic vessel sealing device and UGI and LGI endoscopy set and Urodynamic System under Bid Opening Process. The Surgical OPD at 122/125 (for urodynamics & endoscopy) has been renovated afresh. The surgical wards 21 SOPD and Surgery Office is being renovated.

Publications

Singh, S., Gupta, S., Mishra, T., Banerjee, B.D., Sharma, T. & Mishra, T.S. (2023) Risk factors of incident kidney stones in indian adults: a hospital -based cross-sectional study. *Cureus*, 15(2).

Prasad, A., Agrawal, H., Gupta, N., Gupta, A.K., Bhardwaj, M., Durga, M. (2023) Association of CD10 and VEGF expression with Tumor characteristics and treatment response in patients of carcinoma breast- A prospective cohort study. *Journal of clinical and diagnostic research* 17 (5)

Daima, M., Agrawal, H., Yelamanchi, R., Gupta, N., Gupta, A., Tanwar, H., G S D, Durga C. (2023) Active drainage versus passive drainage after Modified Radical Mastectomy in patients of carcinoma breast- A randomised controlled study *Journal of Clinical and Diagnostic Research* 17(10), PC09-PC13

Kaur, N., Mahapatra, P.P., Chakraborty, S. (2023) Prevalence, characteristics, and correlates of fatigue in Indian breast cancer survivors: A cross sectional study. *South Asian J Cancer* 12(1), 55-61

Gupta, S. V, Kaur, N., Madhu, S.V. (2023) Hormonal profile of survivors of breast cancer with fatigue: A pilot study. *Indian J Med Res.* 157(4), 358-362.

Sharma, S., Malhotra, L., Mukherjee, P., Kaur, N., Krishanlata, T., Srikanth, C.V., Mishra, V., Banerjee, B.D., Ethayathulla. A.S., Sharma, R.S. (2023) Putative interactions between transthyretin and endosulfan II and its relevance in breast cancer. *Int J Biol Macromol.* 14 235:123670.

Journals

Department Teachers serving as Editor(s)/Member(s) of Editorial Board- *Dr Iqbal Singh-Member Editorial Board International Urology Nephrology Journal*

Seminar/Conference Presentation (National/International)-

Dr Iqbal Singh was Invited as National Faculty (Chairperson) by International Society of Coloproctology (ISCP) in the 9th World Conference of Coloproctology from 7th-10th March'2024 held at The Leela, New Delhi.

Dr Iqbal Singh was Invited as National Faculty to Chair-SESSION-II (Urology) in the "LHMC Surgery Clinical Update 2024"-5th Edition, held at Lady Hardinge Medical College Mini Auditorium, New Delhi from 1st-4th February' 2024.

Dr Iqbal Singh was invited as Chairperson to chair a session on "Urology" (Management of renal stones, Management of prostate cancer, Urinary tuberculosis and Approach to a patient with urinary incontinence) on 26-09-2023, at the 41st Annual MAMC Surgery Update from 25-30 September 2023 held by Dept of Surgery at MAMC, Delhi.

Dr Iqbal Singh was invited as External Examiner: By Principal RMC, Hapur for Surgery for Surgery PG IIIrd Year (Batch 2020) , CCS University Meerut Practical Examination of September '2023 Practical Examination from 21.09.2023 to 22.09.2023 at Rama Medical College, Hapur.

Dr Navneet kaur participated as faculty for the Surgery Clinical Oriented Postgraduate Examination Course of Delhi State Chapter, ASI (SCOPE COURSE) on July 21st 2023 and moderated a session on Incisional hernia

Dr Navneet kaur was invited as faculty for MAMC Surgery Update 2023 from 25th – 30th September, Delhi and delivered a talk on "Sentinel node biopsy",

Dr Navneet kaur was Invited to deliver a talk on "Female surgeons: overcoming challenges in training" on 5th September at the Annual Day & CME in Surgery 2023 at AIIMS Delhi

Dr Navneet Kaur delivered a talk on "Updates on screening for breast cancer" at a webinar hosted by IOGD on 28th October 2023

Dr Navneet Kaur was Invited faculty for the Surgery Clinical Oriented Postgraduate Examination Course of Delhi State Chapter, ASI (SCOPE COURSE) on 11-14th January 2024 and was examiner for a session on Early breast cancer

Dr Navneet Kaur was Invited faculty for the LHMC PG update 2024 1-4th February 2024, Delhi and was an examiner for a session on Head & neck and Breast cancer

Dr Navneet Kaur participated as a faculty in “ABSICON 2023”, 12th annual conference of association of breast surgeons of India held at Ahmedabad July 27-30th July 2023 and delivered a talk on “Shared decision making in breast cancer”

Dr Navneet Kaur delivered a lecture on “High risk lesions of the breast and DCIS” for the DNB/ NBEMS surgical oncology webinar on 26/8/23

Dr Navneet Kaur was Invited faculty at the annual conference of ASI 12-15th December, 2023 Visakhapatnam and Delivered a talk on “high risk lesions of the breast & was examiner for the best outgoing PG of the year 2023

Dr Navneet Kaur was Invited faculty for a webinar hosted by Breast Surgery International (BSI) on 6/2/2024 and chaired a session on Management of Pregnancy associated breast carcinoma

Faculty Strength: 08 (Teaching)

1 Sr CMO (Non-Teaching)

UNIVERSITY COLLEGE OF MEDICAL SCIENCES

Major Activities and Achievements

The faculty of UCMS have published more than five hundred research articles and are involved in several research projects funded by various agencies like ICMR, DBT etc.

The college introduced the “Indrayan Award For Excellence in Research” from last year. UCMS also started an Adult Immunization Clinic providing vaccines like Hepatitis B, Tdap etc. for its students.

Honours/Distinctions

Faculty

Aditya N. Aggarwal was appointed as Dean, Faculty of Medical Sciences, University of Delhi, April 2022 to Nov 2023.

Archana Singal was appointed as the Editor-in-chief of The Indian Journal of Dermatology, Venereology and Leprology (IJDVL) 1.

Asmita Rathore, was awarded with FOGSI excellence award 2023.

Dheeraj Shah was appointed as the Director of National Institute of Health & Family Welfare, an apex technical institute and think tank for the promotion of health and family welfare programmes in the country, April 2023.

Piyush Gupta awarded with outstanding Faculty Award. 2nd Faculty Research Awards. Top 50 Researchers in India. Careers 360. Prime Minister Museum, New Delhi, October 3, 2023.

Piyush Gupta delivered the prestigious Surg Comm Prof Shantilal Sheth Oration. Decolonizing Research, Publication, and Medical Education. Indian Academy of Pediatrics. National Conference. Kochi on January 26, 2024.

Pooja Dewan was appointed Editor-in-Chief for Indian Pediatrics, official journal of the Indian Academy of Pediatrics for 2024-2026 w.e.f. January 1, 2024.

Satendra Singh was Awarded the National Annual Award for Medical Humanities 2023 by the Pauranik Academy of Medical Education on 16 Dec 2023 at Delhi for championing medical humanities movement in India.

Shiva Narang was given a State award for Exceptional work for persons with disability was given to Guru Teg Bahadur Hospital in 2023.

Sunita Kalra was appointed as Dean, Faculty of Medical Sciences, University of Delhi, November 2023.

Publications

Scopus indexed Journals

Azizatunnisa, L., Rotenberg, S., Shakespeare, T., Singh, S., & Smythe, T. (2024). Health-worker education for disability inclusion in health. *The Lancet*, 403(10421), 11-13.

Bhatia, R., Gautam, P., Beri, N., Sharma, I., Sahu, P. K., & Das, G. K. (2023). Lacrimal sac compression by an anterior ethmoidal mucocele: A rare case report. *The Pan-American Journal of Ophthalmology*, 5(1), 23.

Choudhary, F., Rani, P., Kotru, M., Gomber, S., Dewan, P., Gupta, R., ... & More, S. (2023). Correlation of T-regulatory Cells and Iron Status in β -Thalassemia Major Patients. *Cureus*, 15(2).

Jeswani, J., Bhardwaj, A., & Bhatt, S. (2023). Utility of Bedside Lung Ultrasound in the Assessment of Volume Status in Patients on Chronic Haemodialysis. *Radiology*.

Kumar, A., Gupta, A., & Bhatnagar, A. K. (2023). Smoking/Chest X-Ray Severity Effect on Sputum Culture Conversion in Multi Drug Resistant Tuberculosis Patient. *J Int Med Sci Acad*, 36(2).

Mohanty, S. K., Diwaker, P., Mishra, S. K., Jha, S., Lobo, A., Panda, S. P., ... & Parwani, A. V. (2024). Diagnostic utility of gata3 and isl1 in differentiating neuroblastoma from other pediatric malignant small round blue cell tumors. *International Journal of Surgical Pathology*, 32(2), 294-303.

Rajnish, R. K., Srivastava, A., Elhence, A., Yadav, S. K., Rathor, K., & Gupta, S. (2024). A systemic review and meta-analysis of pararectus versus ilioinguinal approach for the management of acetabular fractures. *European Journal of Orthopaedic Surgery & Traumatology*, 34(1), 549-560.

Sharma P., Gupta R., Kotru M. (2023). Leucoerythroblastosis in Pregnancy: Can it be Sick Cell Disease? - A Rare Case Report. *Indian Journal of Obstetrics and Gynecology Research*, 10(1), 75-77.

Singh, S., Gupta, S., Mishra, T., Banerjee, B. D., & Sharma, T. (2023). Risk factors of incident kidney stones in Indian adults: a hospital-based cross-sectional study. *Cureus*, 15(2).

Srivastava, S., Nandakumar, D., Khakha, R. R., & Gunasekaran, A. K. D. (2023). Rare Cases of Trichotillomania in Toddlers. *The Primary Care Companion for CNS Disorders*, 25(4), 48461.

Web of Science indexed Journals

Aggarwal, A., Maroof, K. A., Patra, S., & Shah, D. (2024). Effect of COVID-19 Lockdown on Maternal and Infant Healthcare Services in an Urban Resettlement Area of East Delhi. *Cureus*, 16(1).

Agrawal, H., Chaudhary, S., & Salhotra, R. (2023). Comparison of Nalbuphine Versus Clonidine as an Adjuvant to Intrathecal Hyperbaric Bupivacaine in Orthopedic Lower Limb Surgeries: A Randomized Controlled Double-Blind Study. *Cureus*, 15(8).

Behera, S., Sharma, R., Yadav, K., Chhabra, P., Das, M., & Goel, S. (2024). Prevalence and predictors of risk factors for cardiovascular diseases among women aged 15–49 years across urban and rural India: findings from a nationwide survey. *BMC Women's Health*, 24(1), 77.

Khurana, B. J. K., Choudhary, S., Singhal, M., Rautela, R. S., Salhotra, R., Singh, A. & Salotra, R. (2023). Comparison of Intrathecal Chloroprocaine With Bupivacaine in Short Gynecological Procedures: A Randomized Double-Blind Study. *Cureus*, 15(8).

Kumar, S., Jain, A. K., Maroof, K. A., Aggarwal, A. N., Arora, R., Dhammi, I. K., & Gupta, H. (2023). Effect of COVID-19 on the Burden and Profile of Orthopaedic Patients Admitted Post-Resumption of Routine Services in a Tertiary Care Hospital in Delhi. *Cureus*, 15(8).

Kumari, N., Gomber, S., Dewan, P., Narang, S., & Ahmed, R. (2023). COVID-19 Antibody Response in Patients with Thalassemia. *Cureus*, 15(6).

Mohta, M., Kumari, S., Malhotra, R. K., Tyagi, A., & Agarwal, R. (2023). Calculation of effective dose of phenylephrine bolus for treatment of post-spinal hypotension in pre-eclamptic patients undergoing caesarean section—a non-randomised controlled trial. *International Journal of Obstetric Anesthesia*, 56, 103929.

Shrivastava, J., Narang, M., Ahmed, R. S., Das, S., & Gomber, S. (2023). Serological Response to COVID-19 and Its Association With Measles-Rubella (MR)-Containing Vaccines. *Cureus*, 15(5).

Tripathi, S., Nath, M., Misra, S., & Kumar, P. (2024). From A to E: Uniting vitamins against stroke risk—A systematic review and network meta-analysis. *European Journal of Clinical Investigation*, e14165

Tyagi, A., Nigam, C., Pangtey, R., & Agrawal, V. (2023). Severe unprovoked hypertrophic obstructive cardiomyopathy: anaesthetic concerns in patient undergoing parathyroidectomy. *BMJ Case Reports CP*, 16(9), e254641.

Journals published by the College

Pooja Dewan (2024). UCMS Journal of Medical Sciences. *UCMS, Delhi*, 2(1), 1-54

Research Projects

S. V. Madhu: ICMR-YDR registry Cohort Phase III, ₹ 1,29,51,708.

S. V. Madhu: ICMR Diabetes Cohort Study, ₹ 2,17,00,000.

Nishant Raizada, ICMR, Identification of gene-environment and polygenic risk score-environment interactions among Indians that determine the risk of prediabetes and type 2 diabetes mellitus , ₹ 6,96,25,805.

Charu Jain, ICMS, Medical College Level VRDL, ₹ 1,80,00,000.

Vipin Arora, Tata Trust, Functional characterization of patient derived single cell spheroids from squamous cell carcinoma to decipher clinical heterogeneity: a tool for drug screening and radiation sensitivity, ₹ 95,00,000.

Seminars Organized

Dr. Neelima Gupta, Professor, ENT, UCMS, NA, Department of ENT organized a training program for ASHA workers on World hearing day (11th march 2024), March 11, 2024.

Dr. Vamsi K Yenamandra, Physician-Scientist at CSIR-Institute of Genomics & Integrative Biology, NA, Department of Dermatology organized guest lecture on Translational Genomics for Genodermatoses, November 137, 2023.

Dr. J. Augustine, Professor, MAIDS, New Delhi, Dr. Arvind Kumar, Professor, UCMS, Delhi and Dr. Rohit Kumar, Assistant Professor, UCMS, Delhi, Department of Forensic Medicine organized workshop on Age Estimation, April 29, 2023.

Dr. Anita Gupta, WHO/UNICEF/BPNI trainer & course director of IYCF (Infant & Young Child Feeding), Dr Kshitij Agarwal, Senior Resident, Department of Community Medicine, UCMS and Dr. Naudibya Majhi, Senior Resident, Department of Community Medicine, UCMS, NA, Department of Community Medicine organized a CME - on “Breastfeeding Support for Working Parents” for Residents, Faculties, Nurses and Medical officers, August 5, 2023.

Department of Anesthesiology organized “BCLS workshop” for 2nd Annual Medical Conference of UCMS, Medicamentum on October 30, 2023.

Conferences Organized

Department of ENT organized a Conference cum workshop on “Allergy from triggers to a treatment”, December 8, 2023.

Dermatology and Microbiology Co- Organized a Pre-Conference Satellite Workshop (WS5) with the department of Microbiology, held under the aegis of 15th Annual Conference of Indian Association of Medical Microbiologists (IAMM) Delhi Chapter at UCMS, Delhi on November 2, 2023.

The Department of Dermatology hosted the Cadaveric Nail Surgery Workshop for equipping residents from the Departments of Dermatology and Anatomy with practical skills in nail anatomy and surgical techniques, ensuring optimal patient care on December 29, 2023.

Forensic Medicine “20th National Conference of Indian Congress of Forensic Medicine and Toxicology ICFMTCON-23” at UCMS, Delhi on November 25, 2023.

Department of Obstetric and gynecology organized FEMTEK 2: Modern Approaches to Gynecology & Obstetrics organized by FOGSI in association with AOGD and UCMS & GTB Hospital on April 13, 2023.

Seminar/Conference Presentations

A. K. Sharma invited as speaker in the Stakeholder Engagement Workshop on “National Biomonitoring Programme for Chemical Toxicants” at NCDC, Delhi on March 14-15, 2024.

Alpana Raizada invited as a Speaker: Trends in Service Utilization by Older Persons at ART Center: A Retrospective Data Analysis. IAGG Asia/Oceania Regional Congress 2023. Yokohama, Japan on June 12-14, 2023.

Amita Suneja was invited as Guest speaker in international conference on “Post Hysterectomy urinary fistulae” at Pithugi 2024, Padang, Indonesia on February 22, 2024.

Ankur Singh invited as Speakers’ Corner Session 23rd European Society of Retina Specialists Congress in Amsterdam, Netherlands.

Chander Grover was invited as Keynote Speaker (Plenary Session) on “Nail Disorders: Are we doing enough?” during the proceedings of the 25th World Congress of Dermatology, organized by ILDS (International League of Dermatological Societies) at Suntec Convention Centre, Singapore on July 8, 2023.

G. K. Das and P.K. Sahu, department of ophthalmology delivered Surgical Video presentation “Phacoemulsification in post-uveitic cataract using iris hooks” European Society Of Cataract And Refractive Surgeons, Vienna, Austria.

Medha Mohta Invited lecture on “Spinal hypotension – The holy grail” at XVI th Annual National Conference of the Association of Obstetric Anesthesiologists at B J Medical College & Civil Hospital, Ahmedabad on September 22 to 24, 2023.

Piyush Gupta was a Lead Faculty at Workshop on “Manuscript Writing” Research Cell. AIIMS, Guwahati, April 1-2 2023.

Piyush Gupta was invited as a Lead Faculty at Indian Pediatrics 6th Workshop on Research Methodology, Indraprastha Apollo Hospital, New Delhi, October 1-3, 2023.

RS Rautela was invited as resource person at the Trivandrum Institute of Palliative Sciences (TIPS) Faculty Development Program on “Palliative care” by Pallium India, Trivandrum Institute of Palliative Sciences, Kerala from September 25 till October 19, 2023.

National/International MoUs/MoAs Signed

MoU signed between GTB Hospital and Delhi State Cancer Institute for exposure in Radiation Oncology for 4 weeks duration per year for FNB trainees in Pediatric Hematology Oncology (under the aegis of National Board of Examinations) admitted in Division of Pediatric Hematology-Oncology, Department of Pediatrics, UCMS & GTB Hospital, for the period September 1, 2023 to August 31, 2026.

Other Inter-Institutional Collaboration

Dheeraj Shah elected as Member, World Health Organization (WHO) Guideline Development Group for the Consolidated Recommendations for the Management of Common Childhood Illness: Evidence for update of Pocket Book & IMCI.

The ICMR Sponsored project “Identification of gene-environment and polygenic risk score-environment interactions among Indians that determine the risk of prediabetes and type 2 diabetes mellitus “in collaboration with IIT Jodhpur, India.

Extension and Outreach Activities

Department of Community Medicine is running one Urban Health and Training Centre in Dilshad Garden, East Delhi and a rural outreach centre at village Singhola in Narela, where preventive, promotive and curative services are provided daily both at the Centre and in the community.

Cervical screening camp was organized by the departments of Community Medicine, Obstetrics and Gynecology, Surgery and Dentistry of UCMS and GTB Hospital at the MCW centre, Nand Nagri, Delhi on November 28, 2023.

Department of Pathology organized around 30 blood donation camps and carried out 2796 donations this year.

Department of Respiratory Medicine Organized and conducted public awareness programme on tuberculosis in November 2023 on World Tuberculosis Day.

UCMS has also hosted a two – day Queer Chronicles workshop at the Medical Education unit and an informative seminar on cyber-crime. The Red ribbon club conducted orientation session on HIV/AIDS of B.Sc. nursing students, GTBH.

Library Development

During the year 2023-2024, the UCMS College library purchased 195 textbooks and reference books for an outlay of ₹ 5,93,322 and subscribed 47 current journals (28 Foreign Journals and 19 Indian Journals) for ₹ 36,78,716.

The total number of books in the library is 21,178 in addition library has an asset of 26066 bound journals, 1534 WHO Publications, 1148 Thesis and 416 CDs. The library is member of NML-ERMED Consortium through which users can access 235+ e-journals from five publishers’ viz. British Medical Journal (BMJ), Cambridge University Press (CUP), Lippincott Williams & Wilkins (LWW), Oxford University Press (OUP) and Wiley.

Further, through ERMED consortium our users also has access to McGraw Hill’s Access Medicine Database which includes 160+ e-book titles, 2900+ Videos, audio & multimedia resources, 259,000 Images, 2000+ Clinical Cases, 600+Infographics, 130+ Audio podcasts, 37,900+ self-assessment questions, Board & USMLE reviews, 7000+ patient education guides, etc. The prestigious Developing Library Network (DELNET) facility is also provided to all the users. The library users have the facility to access all the library resources remotely via UCMS e-Library Mobile App powered by Refread.

Other services offered by the library include access to DrillBit (plagiarism check), reference service, article retrieval service, current awareness service, circulation, inter-library loan/document delivery, display of new acquisitions, access to old question papers, e-mail alerts.

Faculty Strength

Senior Professor/Professor/Director: 64

Associate Professor: 34

Assistant Professor: 32

Financial Allocation and Utilization

Grant Allocated: ₹ 296.48 crores

Grant Utilized: ₹ 266.95 crores

VALLABHBHAI PATEL CHEST INSTITUTE

Major Activities and Achievements

VPCI had 19 ongoing research projects funded by governmental agencies, MOHFW, DHR, ICMR, DST, NCDC etc which received grants during the year over ₹ 10.21 crores.

VPCI has been awarded NABH EL accreditation in May 2023. The hospital wing registered 11,050 new patients and 52,150 follow-up patients. Indoor General Ward admitted 12,470 patients and Emergency Ward provided Emergency treatment to 24,220 patients. The RICU admitted 1,775 patients for intensive care. No. of diagnostic tests done were: 8,850 Spirometry, 840 Complete Pulmonary Function Tests, 30,050 X Rays, 8920 Biochemistry tests, 15600 Pathology tests, 6,700 Immunology tests, 3,500 Virology tests, 9,500 Microbiology tests, 275 RT-PCR tests and over 200 polysomnograms. Patient Education Centre provided services to 5200 patients.

Cardio-Pulmonary Rehabilitation Clinic provided breathing retraining & education to 117 patients and enrolled 26 patients for supervised rehabilitation. Tobacco Cessation Clinic registered 204 new and 56 follow-up cases.

Over 500 patients availed Telemedicine services offered by VPCI. At the Pollen Count Station, a total of 730 slides were mounted and analyzed. At the National Tobacco Quit Line Service over 3.0 lakh IVR inbound tele-calls were answered by counsellors of which 17,551 users quit successfully with success rate being 20.16%.

Medical mycology laboratory was designated as National Reference Laboratory for Antimicrobial Resistance in Fungal Pathogens under National Action Plan of Antimicrobial Resistance (NAP-AMR), MoH&FW, GOI. At the Multidisciplinary Research Unit 8 projects were ongoing.

The Institute continued to publish reputed and indexed quarterly publication 'The Indian Journal of Chest Diseases & Allied Sciences', in collaboration with NCCP(I).

Honours/Distinctions

Jayeeta Bhadra was Treasurer, ACCLMP Delhi Chapter; was Executive Committee member, Delhi Chapter-ACBI; was Invited as Judge of post-graduate oral scientific paper presentation session at 10th ACCLMPCON 2024 held on February 3-4, 2024 in Udaipur, Rajasthan; was Treasurer, Biotechnology Society of India; Coordinator, NABH EL Accreditation, VP Chest Institute; was External Examiner for Viva-voce of Laboratory Medicine-VII (Clinical Biochemistry) course of GGSIP University held on July

24, 2023 at VMMC & Safdarjung Hospital, New Delhi; was Member of the Governing body, VP Chest Institute; was Member various committees at VP Chest Institute; was Life Member of Association of Medical Biochemists of India [AMBI]; Association of Clinical Biochemists of India [ACBI], National Academy of Medical Sciences [NAMS], Association of Clinical Chemistry & Lab Medicine Practitioners [ACCLMP].

Kavita Gulati was Coordinator of ADR Monitoring Centre (AMC) of Pharmacovigilance Programme of India, Indian Pharmacopeia Commission, MoH & FW, GOI; is Nodal Officer, Multidisciplinary Research Unit of Department of Health Research, ICMR at VPCI; was Secretary of Society for Nitric Oxide and Allied Radicals (SNOAR); is Treasurer of Delhi Pharmacological Society; is Member, IHEC of PGIMER, RML Hospital and Member Expert, (Pharmacology) during meetings on July 28, 2023, September 19, 2023, November 3, 2023, January 16, 2024 and March 18, 2024; was Member, Board of studies in Pharmacology, HIMSR conducted meeting held on July 14, 2023; was Executive Member (Lady Representative) of Indian Pharmacological society; participated in Viksit Bharat Ambassador - Nari Shakti Conclave At Delhi Univ. Sports Stadium, Delhi University on March 7, 2024.

Madhu Khanna received IVS Fellow award for eminent contribution in Medical Virology from Indian Virological Society at VIROCON – 2023, ICAR-National Research Centre for Banana, Tiruchirappalli, Tamil Nadu on December 1, 2023.

Raj Kumar was Member, Planning Board of Atal Medical and Research University (AMRU), Mandi, HP dated March 21, 2023; Member, Performance review of Multi-disciplinary Research Units (MRUs) at UCMS, Delhi dated April 15, 2023; Member, Standing Committee on Academic Matters (SCOAM) Academic Council, University of Delhi, Delhi as of May 27, 2023; received Outstanding Allergy Scientist Award 2023 from Bengaluru Allergy Foundation Bangalore India on September 21, 2023; was Chairperson, Screening Committee for promotion of the faculty members at UCMS under DACP Scheme-2008 on October 17, 2023; was University Representative on the Governing Body of Swami Shardhanand College, University of Delhi, Delhi as on May 10, 2023.

Vishwajeet Rohil was Secretary General, Biotechnology Society of India; was Honored by publication of Dr. Vishwajeet Rohil's message in Conference Book - Sustainable and Innovative Solutions for India@75: A Journey Towards Atmanirbhar Bharat on May 12-13, 2023. IMS Ghaziabad. Bloomsbury Publishing; was External Examiner for PhD Viva-Voce of Ms. Meenakshi Rohilla held on August 25, 2023 at University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University Dwarka, New Delhi; was invited and participated as an Expert in the Panel discussion on Medical Innovation in Healthcare at National Healthcare Skill Conclave 2024 (NHSC24), from March 4 to March 7, 2024. Venue: Parul Institute of Paramedical and Health Sciences, Faculty of Medicine, Parul University, Vadodara, Gujarat; was Member, Board of Examiners for evaluation of Ph.D. thesis submitted by a Research Scholar, Ms. Meenakshi Rohilla, Guru Gobind Singh Indraprastha University Dwarka, New Delhi; was Member of various administrative and technical committees at VP Chest Institute; was Executive Member of Biotechnology Society of India [BSI]; Life Member of Association of Medical Biochemists of India [AMBI], Indian Medical Association [IMA], Delhi Medical Association [DMA], Association of Clinical Biochemists of India [ACBI].

Publications

Scopus indexed Journals

- Ansari, S., Bhadra, J., Ahirwar, A. K., & Gupta, J. (2023). Correlation analysis of HbA1c versus random, fasting, and postprandial glucose levels as predictors of glycemic control in type 2 diabetes patients. *Asian Journal of Medical Sciences*, 14(4), 37-43.
- Bhadra, J., Ansari, S., & Singh, M. (2023). Serum Free Light Chain ratio: Utility as marker of residual disease in monoclonal gammopathies. *International Journal of Medical Reviews and Case Reports*, 7(4), 67-67.
- Bhadra, J., Birde, K. (2023). Biclinal Gammopathy: A case report. *IOSR Journal of Dental and Medical Sciences*, 22(1), 7-9
- Chowdhary, A., Gupta, N., Wurster, S., Kumar, R., Mohabir, J. T., Tatavarthy, S., ... & Kontoyiannis, D. P. (2023). Multimodal analysis of the COVID-19-associated mucormycosis outbreak in Delhi, India indicates the convergence of clinical and environmental risk factors. *Mycoses*, 66(6), 515-526.
- Dutta, S., Goel, N., & Kumar, R. (2024). Assessment of frailty and its predictors in chronic obstructive pulmonary disease. *Lung India*, 41(1), 17-24.
- Goel, N., Goyal, N., Spalgais, S., Mrigpuri, P., Varma-Basil, M., Khanna, M., Nagaraja, R., Menon, B. and Kumar, R. (2023). Initial COVID-19 Severity and Long-COVID Manifestations: An Observational Analysis. *Thoracic Research and Practice*, 24(1), 22.
- Kamgo, T., Spalgais, S., Ravishankar, N., & Kumar, R. (2023). Role of sleep questionnaires in predicting obstructive sleep apnea amongst interstitial lung diseases patients. *Lung India*, 40(4), 327-332.
- Kulshrestha, R., Kumar, P., Singh, A., & Nair, D. S. (2023). Regulation of TGF- β 1-Smad-1-7 signaling to Inhibit Epithelial Mesenchymal Transition by Repurposed Anti-Fibrotic Drug Pirfenidone can Attenuate Lung Cancer Progression. *Journal of Cancer Science and Clinical Therapeutics*, 7(1), 50-64.
- Kumar, R., Behera, D., Singh, A. B., Gaur, S. N., Agarwal, M. K., Prasad, R., ... & Safwan, M. A. (2023). Indian guidelines for diagnosis of respiratory allergy. *Indian Journal of Allergy, Asthma and Immunology*, 37(Suppl 1), S1-S98.
- Kumar, R., Kumar, M., & Mavi, A. K. (2022). Cockroach allergy in respiratory allergic patients. *Indian Journal of Allergy, Asthma and Immunology*, 36(2), 63-64.
- Kumar, R., Kumar, M., Kumar, D., Mavi, A. K., Singh, K., Mrigpuri, P., & Nagaraja, R. (2022). Impact of air pollutants, meteorological factors on pollen counts, and its association with patients emergency hospital visits in the North Delhi region. *Indian Journal of Allergy, Asthma and Immunology*, 36(2), 73-79.
- Kumar, R., Mavi, A. K., & Kumar, M. (2023). Pigeon allergy in asthmatics: An update. *Indian Journal of Allergy, Asthma and Immunology*, 37(1), 1-2.
- Kumar, R., Mrigpuri, P., Sarin, R., Saini, J.K., Yadav, R., Nagori, A., Kabra, S.K., Mukherjee, A. and Yadav, G. (2024). Air pollution and its effects on emergency room visits in tertiary respiratory care centers in Delhi, India. *Monaldi Archives for Chest Disease*, 94(1).
- Kumar, R., Singh, K., Mavi, A. K., Nagar, J. K., Raj, S., Kumar, M., & Nagaraja, R. (2024). Combustion of Biomass Fuel and Chronic Obstructive Pulmonary Disease in Rural Population of India. *The Indian Journal of Chest Diseases and Allied Sciences*, 66(1).

Manocha, N., Laubretton, D., Robert, X., Marvel, J., Gueguen-Chaignon, V., Gouet, P., Kumar, P. and Khanna, M. (2024). Unveiling a Shield of Hope: A Novel Multiepitope-Based Immunogen for Cross-Serotype Cellular Defense against Dengue Virus. *Vaccines*, 12(3), 316.

Pal, G., Mishra, H. P., Suvvari, T. K., Tanwar, A., Ghosh, T., Verma, P., & Rohil, V. (2023). Oxidative Stress in Wistar Rats Under Acute Restraint Stress and Its Modulation by Antioxidants and Nitric Oxide Modulators. *Cureus*, 15(8).

Rajan, S. K., Cottin, V., Dhar, R., Danoff, S., Flaherty, K. R., Brown, K. K., & Wells, A. U. (2023). Progressive pulmonary fibrosis: an expert group consensus statement. *European Respiratory Journal*, 61(3).

Rathi, V., Tiwari, I., Kulshreshtha, R., & SK Sagi, S. (2023). Hypobaric hypoxia induced renal injury in rats: Prophylactic amelioration by quercetin supplementation. *Plos one*, 18(2), e0279304.

Rawat, J., Kumar, A., Mrigpuri, P., Jangpangi, D. S., Singh, A. P., & Bhatt, R. (2024). Role of Single Port Rigid Thoracoscopy in Undiagnosed Pleural Effusion. *Tuberculosis and Respiratory Diseases*, 87(2), 194.

Ray, A. (2023). Inhibitory Effects of *Withania somnifera* on Mast Cell Degranulation and Mortality in Allergic Mouse Model. *EC Pharmacology and Toxicology*, 11, 86-91.

Rehman, S., Naqvi, M., Ali, N. H., Gulati, K., & Ray, A. (2024). Modulation by *Withania somnifera* of stress-induced angiogenesis and airway inflammation in rats. *Journal of Complementary and Integrative Medicine*, (0).

Spalgais, S., Mrigpuri, P., Dhilnaz, A. S., Chorol, T., & Kumar, R. (2023). Pulmonary Sarcomatoid Carcinoma Presenting as Massive Pleural Effusion. *The Indian Journal of Chest Diseases and Allied Sciences*, 65(3).

Spalgais, S., Mrigpuri, P., Ravishankar, N., & Kumar, R. (2024). Pulmonary Function and Diffusing Capacity of Carbon Monoxide in Hypersensitivity Pneumonitis: An Observational Study of 152 Patients. *Thoracic Research and Practice*, 25(2), 51.

Web of Science indexed Journals

Ali, N. H., Rehman, S., Naqvi, M., Reshi, M. R., Gulati, K., & Ray, A. (2023). *Withania somnifera* extract ameliorates airway inflammation and oxidative stress in ovalbumin-induced bronchial asthma in rats. *South African Journal of Botany*, 155, 310-317

Rehman, S., Faizan, M., Ali, N. H., Gulati, K., & Ray, A. (2024). Amelioration by *Withania somnifera* of neurobehavioural and immunological markers in time dependent sensitization induced post traumatic stress disorder in rats. *Indian Journal of Pharmacology*, 56(1), 20-27.

Journals

Director, VPCI (2023). Annual Report 2022-23. *Publication Division, VPCI, NA(NA)*, 150

Raj Kumar and Dr. Ritu Kulshrestha (2023). VPCI News Letter. *Publication Division, VPCI, 11(1)*, 16

Raj Kumar, Editor-in-Chief (2024). Indian Journal of Chest Diseases and Allied Sciences (IJCDAS). *Publication Division, VPCI, 66(1)*, 36

Research Projects

Anuradha Chowdhary: Indian Council of Medical Research, , Genomic analysis of diversity, population structure, transmission dynamics and multidrug resistance in *Candida auris*, an urgent threat to public health 50.41 Indian Council of Medical Research from February 1, 2024 to January 31, 2027.

Madhu Khanna: ICMR-DHR-MoHFW, Setting up of Nation-wide Network of Laboratories for "Managing Epidemics and National Calamities" at VPCI (Medical College Level Viral Research and Diagnostic Laboratory (VRDL)) 197.10 ICMR-DHR-MoHFW, from February 16, 2024 to March 31, 2026.

Mandira Varma: Aarhus University, Denmark, Basil, Antimicrobial Resistance and Labour Migration across Healthcare Boundaries in Northern South Asia.

Raj Kumar, Indian Council of Medical Research, ICMR's Network of Pulmonary Fibrosis.

Ritu Kulshrestha: Life Sciences Research Board (LSRB), DRDO, Nano therapy of Lung fibrosis using gene editing.

Patents Filed/Granted

Ritu Kulshrestha: Pyridone Nano-Compositions And Their Uses In Pulmonary, Airway, And Pleural Disease Conditions- Infectious, Fibrotic And Malignant Inventor.

Seminars Organized

VPCI Faculty, World IPF Week, September 24, 2023.

Conferences Organized

Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy, 20-07-2023, VPCI, July 20-22, 2023.

17th "Autar Singh Paintal Memorial Oration, September 27, 2023.

7th "Dr. VK Vijayan Oration, October 23, 2023.

Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy, December 14-16, 2023.

47th Workshop on Respiratory Allergy Diagnosis & Management, February 12, 2024.

Seminar/Conference Presentations

Jayeeta Bhadra attended Online course on "Implementation of ISO 15189:2022" organized by Udemy on November 9, 2023.

Jayeeta Bhadra attended Online course on Therapeutic Drugs Management organized by Learning Lab for Laboratory Medicine on July 6, 2023.

Jayeeta Bhadra attended Webinar organized by Association for Diagnostics & Laboratory Medicine on "The Importance of Precision and Accuracy in HbA1C Measurement" on August 22, 2023.

Jayeeta Bhadra participated in the CME "Cardiometabolic Health in Women" organized by VMMC and Safdarjung Hospital March 16, 2024.

Jayeeta Bhadra was a participant in the CME on “Recent Advances in Coagulation: An update” organized by GIPMER, New Delhi on April 3, 2023.

Jayeeta Bhadra was a participant in Webinar on “Role of a Clinical Biochemistry Lab in management of plasma cell dyscrasias” organized by Association of Medical Biochemists of India [AMBI] on June 14, 2023.

Kavita Gulati delivered Invited talk "Recent studies on the regulatory role of NO in the pathophysiology of bronchial asthma" during International Conference on Global Disease Biology: Perspective Biotechnology (ICGDB-2024), University of Burdwan, Burdwan, West Bengal, March 15-17, 2024.

Kavita Gulati delivered Key note address entitled Experimental studies on the cellular and molecular mechanisms of *Hedychium spicatum*, to validate its use as a drug for bronchial asthma” during 4th International hybrid Conference on Traditional and alternative Medicine, Chennai, November 23-24, 2023.

Kavita Gulati was Chairperson for HS Buttar Oration during Annual Meeting of International Society of Heart Research (Indian Section) & International Academy of Cardiovascular Sciences (India Section) ISHR 2024, AIIMS, Jodhpur, February 16-18, 2024.

Madhu Khanna presented paper on: Comprehensive dengue vaccine development using multivalent T cell epitopes based immunogen.

Nitin Goel was Chairperson in 47th Workshop on Respiratory Allergy: Diagnosis and Management” at Paintal Golden Jubilee Auditorium, VPCI, University of Delhi on February 13-15, 2024.

Nitin Goel was Faculty in workstation on “Practical training in SPT” and panelist in “Optimal Selection of Allergen for Immunotherapy” in 47th Workshop on Respiratory Allergy: Diagnosis and Management” at Paintal Golden Jubilee Auditorium, VPCI, University of Delhi on February 13-15, 2024.

Nitin Goel delivered Faculty Lecture on ‘Tobacco Cessation Pharmacotherapy’ in Smoking Cessation cum Contact Program of Certificate Course in Tobacco Cessation at Paintal Memorial Golden Jubilee Auditorium, Vallabhbhai Patel Chest Institute, Delhi on October 27, 2023.

Nitin Goel delivered Faculty Lecture on “Asthma Phenotypes” in Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy at Paintal Memorial Golden Jubilee Auditorium, V. P. Chest Institute, University of Delhi, Delhi from July 20, 2023 to July 23, 2023.

Nitin Goel delivered Faculty Lecture on “Asthma Phenotypes” in Certificate course on Diagnosis of Respiratory Allergy and Immunotherapy at Paintal Golden Jubilee Auditorium, VPCI, University of Delhi, Delhi 110007 held from December 14-16, 2023.

Nitin Goel delivered Faculty lecture on “Asthma Types Unveiled: Navigating the Phenotypes” in 57th Annual Conference Of Indian College of Allergy , Asthma and Applied Immunology, ICCAICON 2023 at Jaipur on January 5, 2024.

Nitin Goel delivered Faculty Lecture on “Bronchial Asthma: Phenotypes” in 47th Workshop on Respiratory Allergy: Diagnosis and Management” at Paintal Golden Jubilee Auditorium, VPCI, University of Delhi on February 12, 2024.

Nitin Goel delivered Faculty Lecture on “Indian Guidelines of Allergen Immunotherapy” in Certificate course on Diagnosis of Respiratory Allergy and Immunotherapy at Paintal Golden Jubilee Auditorium, VPCI, University of Delhi, Delhi 110007 held from December 14-16, 2023.

Nitin Goel delivered Faculty Lecture on “Nasal Navigations: Journey Through Allergic Rhinitis” in Allergy Immunology Conclave at Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGI), Lucknow on March 9, 2024.

Nitin Goel delivered Faculty Lecture on “Postural drainage and percussion – Pulmonary Rehabilitation” in Webinar on ‘Pulmonary Rehabilitation Program for Physiotherapists’ organized by Vallabhbhai Patel Chest Institute, Delhi in association with Society for Tobacco Control (STC) on November 17, 2023.

Nitin Goel delivered Faculty Lecture titled “Diagnostic tests for allergy: In-vivo tests” in the workshop on "Airway and allergic diseases" in AIIMS PULMOCRIT 2024 at AIIMS, New Delhi on February 22, 2024.

Nitin Goel delivered Lecture on “Winters and COPD care” in Public Lecture series – Winter is coming: Respiratory issues let’s know it all Paintal Memorial Golden Jubilee auditorium, V. P. Chest Institute, University of Delhi, Delhi on November 23, 2023.

Nitin Goel delivered Public lecture ‘Diagnosis of OSA’ at V. P. Chest Institute, University of Delhi, Delhi on June 28, 2023.

Nitin Goel delivered Public lecture on ‘Health hazards of tobacco use’ at V. P. Chest Institute, University of Delhi, Delhi on May 26, 2023.

Nitin Goel delivered Public lecture on ‘Investigations for diagnosis of IPF’ at V. P. Chest Institute, University of Delhi, Delhi on September 21, 2023.

Nitin Goel delivered Public Lecture on ‘Outdoor air pollution and its effects on human health’ at V. P. Chest Institute on August 24, 2023.

Nitin Goel delivered Public lecture on ‘Testing for aeroallergy- the SPT’ at V. P. Chest Institute, University of Delhi, Delhi on April 28, 2023.

Nitin Goel was Chairperson at AIIMS PULMOCRIT 2024 on 24th - 25th February 2024 at AIIMS, New Delhi, in the session Year in Review/ Guideline Watch on February 25, 2024.

Nitin Goel was Faculty for workstation “Prescription and administration of immunotherapy” in the workshop on "Airway and allergic diseases" in AIIMS PULMOCRIT 2024 at AIIMS, New Delhi on February 23, 2024.

Raj Kumar was Chairperson, Session - Allergy & Asthma - 2 during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 5, 2024.

Raj Kumar was Speaker, “Indian Guidelines for Diagnosis of Allergy” during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 6, 2024.

Raj Kumar delivered Guest Lecture, ‘Allergy Focused Patient History’ during Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy at VP Chest Institute on July 20, 2023.

Raj Kumar delivered Guest Lecture, ‘Allergy Situation in India, Phenotypes and Etiopathogenesis’ during A CME on Allergy – One Airway One Disease organize by Department of Otorhinolaryngology & Head and Neck at Venkateshwara Institute of Medical Sciences on August 4, 2023.

Raj Kumar delivered Guest Lecture, ‘Case Discussion: History, Investigation, Interpretation, allergens Selection and Immunotherapy’ during Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy at VP Chest Institute on July 21, 2023.

Raj Kumar delivered Guest Lecture, ‘Food Allergy in Clinical Practice’ during Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy at VP Chest Institute on July 21, 2023.

Raj Kumar delivered Guest Lecture, ‘Food Allergy - Diagnosis’ during Online sensitisation about Allergy and Immunotherapy from VP Chest Institute, Delhi on April 4, 2023.

Raj Kumar delivered Guest Lecture, ‘Scientific Programme Pneumologica’ during Scientific Programme about Establishing a Quit Smoking Clinic at Max Healthcare, New Delhi, on August 5, 2023.

Raj Kumar delivered Guest Lecture, ‘Setting-up and Allergy Clinic’ during Certificate Course on Diagnosis of Respiratory Allergy and Immunotherapy at VP Chest Institute on July 22, 2023.

Raj Kumar delivered Guest Lecture, “Experiences of National Tobacco Quitline Services in India” during Revolutionising tobacco cessation through Technological Intervention at MAMC Complex, B.S.Z, Maulana Azad Institute of Dental Sciences on November 6, 2023.

Raj Kumar delivered Guest Lecture, “National Tobacco Quitline Service” during Smoking Cessation cum Contact Program of Certificate Course organized by NCRAAI at Paintal Memorial Golden Jubilee Auditorium, VPCI, Delhi on October 27, 2023

Raj Kumar delivered Guest Lecture, “National Tobacco Quitline Services-overview and replication at the state level” during Regional Summit on Strengthening Effective Implementation of the National Tobacco Control Program (NTCP) organized by The Department of Community Medicine & School of Public Health, PGIMER at Hotel Golden Tulip, (Sector 29) on December 12, 2023.

Raj Kumar delivered Guest Lecture, “Role of Immunotherapy in Allergic conditions” during Conference Cum Workshop on Allergy-Allergy in Focus: From Triggers to Treatment at Conference Hall, Library block, UCMS and GTB Hospital, Delhi on December 8, 2023.

Raj Kumar delivered Guest Lecture, “Therapeutic Vaccines – Dose Allergic Immunotherapy (AIT) work in Allergic Diseases?” during CICM (India) Chapter 2 Conference Stay ahead with Innovation Education & Excellence in Pulmocare at India Habitat Centre, Gulmohar Auditorium, Lodhi Rd, Lodhi Estate, New Delhi, Delhi November 5, 2023.

Raj Kumar delivered lecture, “Clinical Cases Discussion” during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 4, 2024.

Raj Kumar delivered lecture, “Introduction and Brief About Allergy Workshop” during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 4, 2024.

Raj Kumar delivered lecture, “Unveiling Food Allergy: From Diagnosis to Treatment Strategies” during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 4, 2024.

Raj Kumar distinguished Faculty, “Allergy and Immunotherapy” during NAPCON 2023, Silver jubilee Conference on Pulmonary Diseases under the aegis of the Indian Chest Society (ICS) and The National College of Chest Physicians (India) organized by Hyderabad International Convention Center, Hyderabad on December 30, 2023.

Raj Kumar distinguished Faculty, “Pulmonary Rehabilitation” during NAPCON 2023, Silver jubilee Conference on Pulmonary Diseases under the aegis of the Indian Chest Society (ICS) and The National College of Chest Physicians (India) organized by Hyderabad International Convention Center, Hyderabad on December 30, 2023.

Raj Kumar was Chairperson, Session - Satellite Symposium: Precision Allergy Testing – How CRD is Changing the Game during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 5, 2024.

Raj Kumar was guest of honour during Inauguration of Conference Cum Workshop on Allergy-Allergy in Focus: From Triggers to Treatment at Conference Hall, Library block, UCMS and GTB Hospital, Delhi on December 8, 2023.

Raj Kumar was Moderator, “Allergy and Immunotherapy” during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 6, 2024.

Raj Kumar was National Co-ordinator, Workshop on Allergy & Immunotherapy during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 6, 2024.

Raj Kumar was panelist for “Roadmap for Universal Tobacco Cessation Clinics” during Revolutionising tobacco cessation through Technological Intervention at MAMC Complex, B.S.Z, Maulana Azad Institute of Dental Sciences on November 6, 2023.

Raj Kumar was Quiz Master, “Post Workshop Quiz” during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 4, 2024.

Raj Kumar was Speaker, “Food Allergy in Bronchial Asthma” during 57th Annual Conference of Indian college of Allergy, Asthma and Applied Immunology (ICCAICON 2023) organized by United Academy of Pulmonary Medicine, India (UAPM) and Allergy, Asthma & Chest Hospital (AANCH) endorsed by NCCP (Rajasthan Chapter) at Hotel The Lalit, Jaipur on January 4, 2024.

Raj Kumar was special guest, during Revolutionising tobacco cessation through Technological Intervention at MAMC Complex, B.S.Z, Maulana Azad Institute of Dental Sciences on November 6, 2023.

Uma Tyagi attended Panel Discussion and Presentation on the Impact of AI, ChatGPT, and Machine Learning in Health Science Publishing, organized by National Medical Library and S Karger on December 18, 2023.

Uma Tyagi was a participant at Celebrating Global Librarianship: Strengthening Connections, Collaborations and Competencies, organized by DELNET- Developing Library Network and Galgotias University.in Virtual Mode on April 17, 2023.

Uma Tyagi was a participant at the 4th National Conference on "ERMED Consortium: Digital Health Resources: A Reality." Organized by National Medical Library on August 11, 2023.

Uma Tyagi was a participant in the Online user awareness program to demonstrate accessibility of Springer nature eBooks and Journals for DU researchers and faculties, organized by University of Delhi and Springer Nature Virtual Mode on July 19, 2023.

Uma Tyagi was Chairperson, ICAL Registration Sub Committee, Presentation in ‘Exchange of Ideas’ session and Institutional Participant International Conference on Academic Libraries (ICAL-2023) on “Transforming Academic Libraries: Evolution, Innovation, Quality, Transfiguration” organized by Delhi University Library system, University of Delhi, Delhi at University of Delhi held during April 5-8, 2023.

Vishal Bansal delivered lecture on ‘Pulmonary Rehabilitation: An aspect in management of Chronic Respiratory Diseases’ organized by Government Institute of Medical Sciences, Greater Noida on October 13, 2023.

Vishal Bansal delivered lecture on ‘Role of Pulmonary Rehabilitation in Post-TB Lung Disease’ at “TBCON-2024”at National Institute of Tuberculosis & Respiratory Diseases, New Delhi organized by NITRD, New Delhi on March 17-18, 2024.

Vishal Bansal delivered Workshop Lecture on : ‘Advancements in Pulmonary Rehabilitation: Harnessing the Power of Cardiopulmonary Exercise Testing (CPET) for Optimal Respiratory Health’ organized by International Union Against Tuberculosis and Lung Disease (The Union), New Delhi at JJ Hospital, Mumbai, Maharashtra on October 20, 2023.

Vishal Bansal delivered Workshop Lecture on ‘Advancements in Pulmonary Rehabilitation: Harnessing the Power of Cardiopulmonary Exercise Testing (CPET) for Optimal Respiratory Health’ , organized by ESIC Medical College and Hospital, Faridabad, Haryana on February 6-7, 2024.

Vishal Bansal delivered Workshop Lectures on ‘Components and Assessment of Outcome Parameters in Pulmonary Rehabilitation’ and ‘Setting up a Pulmonary Rehabilitation Clinic and Challenges’ organized by National College of Chest Physicians (India) and Indian Chest Society (ICS) Pre-Conference Workshop on ‘Pulmonary Rehabilitation & Smoking Cessation’ in NAPCON 2023. at Apollo Hospitals, Jubilee Hills, Hyderabad, Telangana on November 30, 2023.

Vishwajeet Rohil attended Conference cum Training program on “ Current trends in Nitric Oxide (NO) research: A translational approach” organized by, VP Chest Institute, Delhi, April 5, 2023.

Vishwajeet Rohil attended Workshop “Medical Innovation in Healthcare at National Healthcare Skill Conclave 2024 (NHSC24)” organized by Parul Institute of Paramedical and Health Sciences, Faculty of Medicine, Parul University, Vadodara, Gujrat, March 4-7, 2024.

Vishwajeet Rohil participated in the CME on “Empowering Heart Health: a focus on Lipid Profile” organized by Lal path Labs Ltd and Lip9id Association of India on April 9, 2023.

National/International MoUs/MoAs Signed

MoA signed for establishment of Viral Research Diagnostic Laboratory (VRDL), between Vallabhbhai Patel Chest Institute, DU and Department of Health Research, Ministry of Health & Family welfare, Govt. of India for “Setting Up Nation-Wide Network Of Laboratories For Managing Epidemics And National Calamities”.

Other Inter-Institutional Collaboration

VPCI collaborated with other prestigious institutions namely, AIIMS, NITRD, RMLH New Delhi, Delhi Technological University (DTU), Delhi University Department of Zoology, Ramjas College; Dr. B.R. Ambedkar Center for Biomedical Research etc.

Various departments of VPCI provided short-term training to postgraduate/graduate students of from other prestigious Universities/Institutes such as GLA University, Mathura, U.P., Deenbandhu Chhotu Ram University of Science & Technology, Murthal (Haryana), Ghaziabad (University Course Campus), Amity University, Gautam Budh Nagar, U.P..

Extension and Outreach Activities

Swachhata Hi Seva Campaign was conducted during September 15 to October 2, 2023 under the aegis of Swachha Bharat Mission. Cleanliness drive coupled with various cleanliness awareness activities were undertaken besides seminars on biomedical waste management, beautification of departments and honouring sanitary staff etc. Public

Lectures were conducted on topics viz “Respiratory Allergy: Causes, Symptoms, Diagnosis, Treatment and Avoidance on April 27, 2023, ‘Quit Tobacco, Choose a Healthy Life on May 26, 2023; ‘Let’s Talk – Sleep Apnea on June 28, 2023; ‘Winter is Coming: Respiratory Issues Let’s Know It All on November 23, 2023.

Library Development

The Institute has one of the best library in the field of Pulmonary Disease and Allied Sciences having 10136 Books, 25026 bound Journals, 178 CD’s, 591 Thesis and 32 National and International Reports. A total 16 Journals (05 International and 11 National) are being received on exchange program with the Institute’s Journal and 01 Journals are received on complimentary basis.

VPCI is a member of National Level ERMED Consortium (e-journals) for the Calendar Since year 2018. ERMED Consortium subscribed 242+ e-journals from five publishers along with ‘Access Medicine Database’ from McGraw Hill which includes 160+ Book Titles; 2000+ Clinical Cases; 37900+ Self-assessment Questions; 2900+ Videos, Audio and Multimedia Resources; 600+ Infographic; 7000+ Patient Education Guides; 257000+ High-Resolution Images and 130+ Audio podcasts. All e-journals and other resources are configured on Static IP / IP’s of our Institute.

The Internet services have been provided right on the desktop of each Faculty Member through DUCC network /LAN and a separate Leased line connectivity (VPCI) with 10 Mbps from MTNL.

Library uses “LibSys 4.0” Library Management Software, which is an integrated multi-user library management system that supports all in-house operations of the Library. The ‘LibSys’ consists of modules on acquisition, cataloguing, circulation, serials, article indexing and OPAC.

Faculty Strength

Senior Professor/Professor/Director: 10

Associate Professor: 5

Assistant Professor: 3

Financial Allocation and Utilization

Grant Allocated: ₹ 72.00 crores

Grant Utilized: ₹ 72.00 crores (as per provisional UC)

FACULTY OF MUSIC & FINE ARTS

MUSIC

Major Activities and Achievements

YOGA DAY: On 21 June 2024, the Department celebrated International Yoga Day by holding a workshop on Yoga. All teachers, staff members & many students participated in the yoga.

MALHAR UTSAV: The Malhar Utsav is a two-day Annual festival of Indian Classical Music, organized by the Dept. of Music, University of Delhi, held every year in August (this year it was held on 17th August 2024). As the name suggests, this festival celebrates the spirit of the rainy season. The many varieties of Raga Malhar are rendered by artists of national repute. Students through such a festival get to understand the importance of seasonal ragas and their treatment in various traditions (Gharanas).

NATIONAL SEMINAR: On 22-23 November 2024, the Department of Music organized a two-day National Seminar that commenced with ‘Mangal Dhawani’ by ‘Sargam Choir’ a Hindustani Music presentation by the students of the Department conducted by Dr. Vineet Goswami. The Programme included a Hindustani Vocal Recital by Padmashree Smt. Malini Awasthi & Group, a Karnatak Vocal Recital by Prof. Subbachary Pulikonda & Sh. Angalakurty Ramamurthy from Hyderabad, Pt. Abhay Rustum Sopori & Group from Delhi and Sh. Ram Swaroop & Group from Rajasthan.

BASANT PANCHAMI: On 14th February 2024, the Department of Music organised the “Basant Panchmi-Vasantotsav” Festival, which Sh inaugurated. Raju Das Secretary, Sangeet Natak Akademi, Delhi.

Honours/Distinctions

Faculty

- Manikandan, Prof. T.V., Life Time Achievement Award (Sangeeta Vidwan) given by Sangeetha Samajam (Regd.), KRJ Music School, Madurai - New Delhi.
- Tripathi, Dr. Smriti, Swar Kokila Lata Mangeshkar Samman – 2024 from Sampark Kranti Pariwar, Noida, U.P. held on 16.03.2024.
- Kaur, Dr. Simarpreet, participated in Faculty Induction Programmes – FIP on pedagogical Imperatives for Creating a Quality Learning Environment for all organized by the Department of Education, University of Delhi w.e.f. 01.12.2023 to 08.12.2023.
- Tripathi, Dr. Smriti, participated in Faculty Induction Programmes – FIP on pedagogical Imperatives for Creating a Quality Learning Environment for all organized by the Department of Education, University of Delhi w.e.f. 01.12.2023 to 08.12.2023.
- M.V., Dr. Bindu, participated in Faculty Induction Programmes – FIP on pedagogical Imperatives for Creating a Quality Learning Environment for all organized by the Department of Education, University of Delhi w.e.f. 01.12.2023 to 08.12.2023.
- M.V., Dr. Bindu, participated in a refresher course conducted by UGC-Malviya Mission Teacher Training Center, University of Calicut w.e.f. 20.02.2024 to 04.03.2024 in Hybrid online mode.

Publications

Research Articles

1. Dr. Ajay Kumar (2023), Karnatak Sangeet Me Taalswaroop, *SSN – 2348-5892*, 2, 36-37
2. Dr. Smriti Tripathi (2024), Research Paper, *SSN – 2231-1041*, 24, 58
3. Dr. Simarpreet Kaur (2024), Hindi Chitrapat Sangeet Me Bharat Ke Vibhinn Pranto Ke Lok Sangeet Ka Prayog: Nirakshan Evam Pariksha, *SSN – 2231-1041*, 24, 55
4. Dr. Shalini Thakur (2024), Uttari Evam Dakshini Sangeet Ke Prathak Hone se Purva ki Stithi, Uske Karan Tatha Prabhav, *SSN – 2231-1041*, 24, 61

Journal(s) Published by the Department

Prof. Alka Nagpal, (2023), VAGEESHWARI The World Classical Music e-Research Journal, *Department of Music, University of Delhi*, November 2023, 37, 1-101

Seminars/ Conferences Organized by the department

Hindustani Vocal Recital by Padmashree Smt. Malini Awasthi & Group, a Karnatak Vocal Recital by Prof. Subbachary Pulikonda & Sh. Angalakurty Ramamurthy from Hyderabad, Pt. Abhay Rustum Sopori & Group from Delhi and Sh. Ram Swaroop & Group from Rajasthan, Various High-Grade Artist, University of Delhi, Interrelation between Indian Classical Music & Folk Music, 23-11-2023

Sh. Manoj Tiwari, • Hindustani Sitar Recital by Pt. Kushal Das from Delhi • Hindustani Vocal Recital by Vidushi Ashwini Bhide Deshpande from Mumbai, MP, GoI & Various Artists, University of Delhi, Malhar Utsav - Celebrating Monsoon Season, 17-08-2023

Seminar/Conference Presentations (National / International)

International

Dr. Simarpreet Kaur: Presented paper titled “Bhartiya Sanskriti Me Kirtan Parampara” International Seminar - Literature, Music, Arts & Science held on September 10, 2024 Faculty of Social Science, BHU

Dr. Simarpreet Kaur: Presented paper titled “Raagdari Sangeet Evam Avsaad Prabandhan in International Seminar - Literature, Music, Arts & Science held on October 30, 2023 in Faculty of Social Science, BHU

Dr. Simarpreet Kaur: Presented paper titled “Raagdari Sangeet Evam Avsaad Prabandhan” in International Seminar - Literature, Music, Arts & Science held on March 2, 2024 in IQAC, Sanatan Dharma Govt. College, Vyavar & Vigyan Bharti, Delhi

Dr. Shalini Thakur: Presented paper titled “Shastriya Sangeet Me Nritya Rochakta Evam Naveenta” in International Seminar held on February 2, 2024 in Sangeet Evam Pradarshan Kala Vibhag, Allahabad University, Prayagraj.

National

Dr. Shalini Thakur: Presented paper titled “Aadhunik Rangmanch Ki Sangeet Parampara” in Anhad Lok Rangmanch, Vyanjana Art And Cultural Society held on September 24, 2023 in Vyanjana Art And Cultural Society, Ministry of Culture, Govt. of India.

Dr. Smriti Tripathi: Presented paper titled “Understanding India’s Composite Culture through the tradition of Devotional songs Arts & Science” in Literature, Music, Arts & Science held on October 30, 2023 in Faculty of Social Science, BHU.

Dr. Smriti Tripathi: Presented paper titled “From Depression to Joy in the perspective of Literature, Music, Arts & Science” in Literature, Music, Arts & Science held on March 2, 2024 IQAC, Sanatan Dharma Govt. College, Vyavar & Vigyan Bharti, Delhi

Placement Details

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Number of M.Phil./Ph.D. Degrees Awarded

Ph. D. - 22

M. Phil - 10

Faculty Strength

Professor - 7, Associate Professor – 1, Assistant Professor – 13, Guest Lecturer – 3, and Staff Artist - 16

FACULTY OF SCIENCE

ANTHROPOLOGY

Major Activities and Achievements

Department of Anthropology, University of Delhi has been ranked among the top 51-100 positions in the QS World University Ranking by Subject in 2024.

University of Delhi established the Centre for Tribal Studies (CTS) at the Department of Anthropology on 09 August, 2023 to mark the International Day of the World's Indigenous People. Prof. S.M. Patnaik, Head, Department of Anthropology was appointed as the Director of CTS.

The Department of Anthropology organized the 19th IUAES-WAU World Anthropology Congress from 14-20 October 2023 on the theme "Marginalities, Uncertainties, and World Anthropologies: Enlivening Past and Envisioning Future". 600 International delegates from more than 70 countries participated the historic event. The World Congress returned to India after 45 years.

The Department of Anthropology was selected as one of the G20 nodal Centres to organize G20 related cultural and academic activities with special focus on Brazil and Japan. Under the aegis of Cultural Council University of Delhi, the department organized Kala Utsava: Cultural Evening Series with special focus on Brazil and Japan on 17 and 18 October 2023.

Honours/Distinctions

Faculty

Prof. S.M. Patnaik - Elected as Sectional President, Social Sciences, Indian Science Congress 2024 - 2025.

Prof. S.M. Patnaik - Slected as Senior Vice President, International Union of Anthropological and Ethnological Sciences (IUAES), 2023 - 2027.

Prof. S.M. Patnaik - Appointed as a member of Steering Committee of World Anthropological Union (WAU), 2024 - 2027.

Prof. P.R. Mondal - Appointed as Chairperson of WUS Health Centre, University of Delhi.

Prof. P.R. Mondal - Appointed as Honorary Professor of Centre for Multi-disciplinary Development Research (CMDR), Karnataka (INDIA)

Publications

Scopus

Ansari, S. N., Rajkumari, S., Rawat, S., Chandel, S., Devi, N. K., Saraswathy, K. N., & Joshi, P. C. (2023). Psycho-social correlates of depression and anxiety disorder among Bhil indigenous population of India. *Advances in Mental Health*, 21(2), 103-114.

Bhattacharjee, D., Chaudhary, V., Khate, K., Devi, N. K., Babu, N., & Saraswathy, K. N. (2023). Incidence and risk factors of cognitive impairment: A 6-year follow-up study from North India. *Clinical Epidemiology and Global Health*, 24, 101422.

- Chaudhary, V., Bhattacharjee, D., Devi, N. K., & Saraswathy, K. N. (2024). Global DNA Methylation Levels Viz-a-Viz Genetic and Biochemical Variations in One Carbon Metabolic Pathway: An Exploratory Study from North India. *Biochemical Genetics*, 1-17.
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UGC

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Web of science

Nešković, V. V., Reuter, T., & Patnaik, S. M. (2023). Anthropological Perspectives on Covid-19. *Etnoantropološki problemi/Issues in Ethnology and Anthropology*, 18(1), 25-29.

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Journals

Prof Nilika Mehrotra (2023). *Indian Anthropologist*, Indian Anthropological Association, Department of Anthropology, University of Delhi, 1 & 2, 53, 124.

Research Projects

Prof. P.R. Mondal - Institute of Eminence, University of Delhi, Identification and characterization of hand skin microbiome of construction workers in Delhi., Rs. 5,00,000/-

Prof. K. N. Saraswathy - ICMR, Folate Metabolism in Pregnancy Progression and its Outcome: A follow-observational Genetic and Epigenetic Study, Rs. 94,39,546/-

Dr. Naorem Kiranmala Devi - Institute of Eminence, University of Delhi, Genetic and Sociodemographic Factors in Depression among Young Adults with ADHD in Delhi-NCR: A Cross-sectional Study, Rs. 4,95,550/-

Dr. Vipin Gupta - Institute of Eminence, University of Delhi, Epidemiological Burden Assessment of Maternal Cardiometabolic and Offspring's Nutritional and Cognitive Health in Rajasthan, Rs 4,00,000/-.

Dr. Shivani Chandel - Indian Council of Social Science Research (ICSSR), Physical Frailty, Cognitive Impairment, and its associated Bio-social risk factors among two communities of Older Adults from Delhi-NCR, Rs. 16,00,000/-

Dr. D.V.Prasad - Indian Council of Social Science Research (ICSSR), An Anthropological Study of Dhurwa Movement against British in Bastar, Rs. 5,00,000/-.

Dr. Durga Rao Pedada - Institute of Eminence, University of Delhi, Home Based Health Care for Maternal and Child Health: A Study among Nomadic Tribal Groups of Baramulla District in Jammu and Kashmir, Rs. 2,10,000/-.

Dr. Ramesh Sahani - Rail Vikas Nigam Limited, Social Impact Assessment for Acquisition of land in village Bhalowal of Tehsil Nangal, Distt. Rupnagar, Punjab.PWD, Govt. of Punjab, Rs.5,00,000/-.

Dr. Suniti Yadav - Institute of Eminence, University of Delhi, Effect of long-term Particulate Matter (10,2.5) exposure and 5-HTTLPR gene polymorphism on mental health among adolescents in Delhi, Rs.5,00,000/-.

Dr. Suniti Yadav - Department of Health Research (DHR), Ministry of Health and Family Welfare, GOI, Proteomic and Inflammatory Signatures of Cardiac Injury in Long-Covid culminating into Heart Failure, Rs. 49,92,372/-.

Dr. Suniti Yadav - ICMR, An interventional study to strengthen and develop continuum of care for common mental health disorders, Rs. 1,00,19,789.60/-.

Seminars Organized

Dame A. Marilyn Strathren, Ravindra K. Jain, Ravindra S. Khare, Helen McDonald, Thomas Rueter, Subrata Bagchi, Subhadra Channa, Virginius Xaxa, Miriam Grossi, IUAES-WAU World Anthropology Congress, 2023. "Marginalities, Uncertainties, and World Anthropologies: Enlivening Past and Envisioning Future", 20-10-2023.

Prof Nilika Mehrotra 2. Prof. Deepshika Agarwal, Beyond Label: Gender Sensitization Workshop, 01-06-2023.

Prof. SM Patnaik, Dr. Vipin Gupta, Dr. Kennedy Singh, Dr. Mitashree Srivastava, Department of Anthropology, University of Delhi, Anti Ragging Orientation Programme and antiragging week, 18-08-2023.

Research Seminar Group, Department of Anthropology, University of Delhi, Anthropology in the Contemporary World, World Anthropology Today, 15-02-2024.

Dr. Shivani Verma, Dr. Avitoli G. Zhimo, Invest in Women, Anthropological insights for accelerating progress, 08-03-2024.

Prof. Manju Puri, Prof. A.K. Kalla, Contemporary Issues and Contextual Solutions in Anthropological Research in honour of Prof. M.P. Sachdeva, 27-04-2023.

Prof K. Anil Kumar, Role of the Tribal Freedom Fighters in Nation Building, 24-11-2023.

Dr. Nandita Singh, Dr Om Prakash Singh, Millenium Water Story: Practicing Visual Anthropology for Water Sustainability, 14-03-2024.

Dr. Anup Adhikari, Sports Anthropology Today: Contemporary Concerns, 20-03-2024.

Dr. Richa Rohatgi, Dr. Arun Kumar, Ms. Jaisleen Kaur, Dr. Monika Saini, Dr. Loveena Sehra, Ms. Shivani Tyagi, Exploring New Frontiers in Forensic Science and Anthropology, 03-02-2024.

Seminar/Conference Presentations (National / International)

Dr. Mitashree Srivastava

Dr. Mitashree Srivastava, Gender, Pilgrimage and Power: Women Pilgrims at Bodh gaya. 18th Sakyadhita International Conference on Buddhist women. Korean conference planning committee in conjunction with the Sakyadhita International Conference Program committee, Seoul, Korea. 2023-06-23.

Dr. Shivani Chandel

Dr. Shivani Chandel, Anxiety and Depression among females in the two Mendelian populations of India. World Applied Anthropology Congress (WAAC-2023) Anthropological Perspectives on the Contemporary Issues. University of Kansas, Lawrence, KS, USA. 2023-06-23.

Dr. Shivani Chandel, Alarming Mental Health Crisis Among Gond Adolescents of Madhya Pradesh, India. SIMA Conference/ Workshop/ Post-Congress of WAC. Karnataka State Tribal Research Institute (KSTRI), Mysore. 2024-01-20.

Dr. D.V. Prasad

Dr. D.V. Prasad, Endangering Traditional Knowledge System of Horticulturists in Nicobar Islands. International Union for Anthropological and Ethnological Sciences (IUAES)-WAU World Anthropology Pre-Congress 2023. University of Kansas, Lawrence, KS, USA. 2024-02-09.

Dr. D.V. Prasad, Missing Soul of Little Republics: An Anthropological Study of Gram Panchayats in Fifth Scheduled Areas. Anthropology of Development and Sustainability. Dept. of Anthropology, University of Hyderabad, Hyderabad. 2024-02-09.

Prof. K. N. Saraswathy

Prof. K. N. Saraswathy, Understanding hypertension patterns and risk factors in tribal and non-tribal Indian communities. SIMA Conference/ Workshop/ Post-Congress of WAC. Karnataka State Tribal Research Institute (KSTRI), Mysore. 2024-01-20.

Prof. K. N. Saraswathy, Bio-social Correlates of Depression in two communities with Shared Ancestry. Indian Anthropology Congress, 2024.IGRMS, Bhopal in collaboration with INCAA. 2024-01-20.

Dr. Suniti Yadav

Dr. Suniti Yadav, Addressing community needs and health inequalities for hypertension control in India. SIMA Conference/ Workshop/ Post-Congress of WAC in Mysore. Karnataka State Tribal Research Institute (KSTRI), Mysore. 2024-01-20.

Dr. Suniti Yadav, Long-COVID syndrome and systemic oxidative damage: Exploring post-acute cardiac sequelae. Joint Annual Meeting of International Society for Heart Research (Indian Section) & International Academy of Cardiovascular Sciences (India Section), ISHR 2024: Cardiovascular Sciences – From Molecule to Clinical. AIIMS, Jodhpur. 2024-02-16.

National/International MoUs Signed

International Union of Anthropological and Ethnological Sciences (IUAES).

Wenner Gren Foundation for Anthropological Research, USA.

Other Inter-Institutional Collaboration: 11

Students under Exchange Programme: 04

Placement Details: 15

Extension and Outreach Activities

Prof. S.M. Patnaik - Lecture at the Inauguration: 2nd Global Feminism and Queer Politics Virtual Seminar. Organized by IUAES commission based at Brazil 11-12-2023.

Prof. S.M. Patnaik - Lecture on Tribal Studies in India: Policy and Practice online Inaugural Lecture at UGC. Malaviya Mission Teacher Training Centre, Sambalpur University Odisha 10-01-2023.

Prof. S.M. Patnaik - Delivered a special address as Guest of Honour on Tribal Study in India: Policy and Practice at Sambalpur University, Odisha 10-01-2024.

Prof. P.R. Mondal - Resource person of Hansraj College, University of Delhi, invited to give a lecture in the Faculty Development Programme (Mahatma Hansraj-Malviya Mission Teacher Training Centre) on "Interdisciplinary Horizons: Advancing Research Methodology in Social Science 15-11-2023.

Prof K.N. Saraswathy - Delivered an invited lecture on "Genetics, Epigenetics, and One Carbon Metabolism in Health and Disease" on Pre- World Anthropology Congress-2023 International Seminar on Anthropology, Health, and Disease: Eliminating Disparities, Amity University Uttar Pradesh, Noida Campus 04-08-2023.

Prof. K.N. Saraswathy - Delivered an invited lecture "Technology in Molecular Anthropology Research" at the Post-Congress of WAC in Manipur, organized by the Department of Anthropology, Manipur University. February 15-17, 2024.

Dr. Suniti Yadav - Delivered a lecture as subject expert in the area of "Cellular and Molecular Biology" under a partnership programme between DST-IRIS to popularize science and the spirit of innovation among students of Class 5 to Class. The selected students become a part of the Indian contingent representing the country at the Regeneron International Science and Engineering Fair (ISEF), USA 04-08-2023.

Dr. Suniti Yadav - Jointly co-organised the Cardiovascular Research Convergence 2023 - Bench to Bedside with CSIR-IGIB New Delhi and AIIMS New Delhi, held at CSIR-IGIB New Delhi 29-10-2023.

Dr. Shivani Chandel - Organized an Elocution competition on 24 November 2023 in the Department of Anthropology, University of Delhi, in continuation of the celebration of the occasion of 3rd Jan Jatiya Gaurav Diwas on 15-11-2023.

Dr. Suniti Yadav - Delivered a lecture to Kendriya Vidyalaya (North Zone - Agra) teachers to promote STEM based projects in classroom teaching so as to set the base for students to explore finding innovative solutions to day to day problems using the STEM concepts they learn as part of their curriculum at KV No.- 2, Sector 24, NOIDA, 10-01-2023.

Dr. Suniti Yadav - Served as an SRC judge for the National IRIS Science Fair 2024 organized by DST and IRIS in PPP mode. The National winners are mentored by SRC members in different areas.

Dr. Naorem Kiranmala Devi - Organized an elocution competition in observance of International Women's Day. The event, themed "Invest in Women: Anthropological Insights for Accelerating Progress," was hosted by the Department of Anthropology at the University of Delhi, 08-03-2024.

Dr. Naorem Kiranmala Devi - Delivered a lecture titled "Relevance of Medical Anthropology on Lifestyle Diseases: An Observation from Punjab" at the SIMA Conference in Mysore organized by Karnataka State Tribal Research Institute (KSTRI), Mysore.

Dr. Naorem Kiranmala Devi - Delivered a lecture on “Anthropological understanding of National Hypertension Program in India and US” at the World Anthropology Post Conference 2023 International Seminar on Anthropology in Practice: Health, Culture, & Security organized by the Department of Anthropology, Manipur University, 15-02- 2024.

Dr. Naorem Kiranmala Devi - Delivered an invited lecture titled "Qualitative and Quantitative Methods in Social Sciences Research" as a resource person in the faculty development program at the National Institute of Public Cooperation and Child Development (NIPCCD).

Dr. Avitoli G Zhimo - Delivered an invited lecture on ‘Women in Indian Culture and Folk Traditions’ on the occasion of International Women’s Day organised by Indira Gandhi National Centre for the Arts (IGNCA), Regional Centre, Ranchi. 14-03-2024.

Dr. Avitoli G Zhimo - Delivered an invited lecture on ‘Our land and people- Cultural Heritage of North Eastern India’ 484th Orientation Course in line with NEP-2020 for in-service teachers from January 30, 2024 at Centre for Cultural Resources and Training (CCRT) Headquarters, New Delhi.

Dr. Avitoli G Zhimo - Delivered an invited lecture on Applied Visual Anthropology at PHDMA Workshop 2.0 at PHDMA Lab, Bhubaneswar, 04-12-2023.

Dr. Avitoli G Zhimo - Delivered an invited Lecture on ‘Tribal Empowerment’ at webinar organized by Indraprastha College for Women, University of Delhi, HYPATIA, Department of Sociology, Under Azadi ka Amrit Mahotsav, 14-08-2023.

Dr. Avitoli G Zhimo - Delivered an invited lecture on ‘Gender Equity and Neutrality in School Education’ at 479th Orientation Course in line with NEP-2020 for Teacher Educators from August 08, 2023 at Centre for Cultural Resources and Training (CCRT) Headquarters, New Delhi.

Dr. Avitoli G Zhimo - Delivered an invited lecture on ‘Our land and people- Cultural Heritage of North Eastern India’ at 477th Orientation Course in line with NEP-2020 at the Centre for Cultural Resources and Training (CCRT) Headquarters, New Delhi, June 07-27, 2023.

Dr. Ramesh Sahani - Delivered a lecture entitled-Questionnaire and schedule on 24-01-2024 during one week Research Methodology workshop organized by Department of Anthropology, University of Delhi, January 23-31, 2024.

Dr. Ramesh Sahani - Delivered a lecture on 22-02-2024 entitled- Andaman and Nicobar Islands in the context of Types of Tribes – Migrant, hunting –Gathering, Cultivating for ONLINE Refresher Course in Tribal Culture, Heritage and Folklores (IDC) for University and College teachers scheduled to be held from 15th February 2024 – 28th February 2024 organized by CPDHE, UGC-MMTTC, University of Delhi in collaboration with P.G.D.A.V. College (Evening).

Dr. D.V. Prasad - delivered a Guest Lecture on “Conceptualization of Tribal Studies: Anthropological Perspective” for PG Diploma students at Indira Gandhi National Centre for Arts (IGNCA), New Delhi on 15th September 2023.

Dr. D.V. Prasad - delivered a Guest Lecture on “Conceptualization of Tribal Studies: Historical from Historical Perspectives” for PG Diploma students on 18th September 2023.

Dr. D.V. Prasad - delivered a Guest Lecture on “Conceptualization of Tribal Studies: Sociological Perspective” for PG Diploma students at Indira Gandhi National Centre for Arts (IGNCA), New Delhi on 12th October.

Dr. D.V. Prasad - delivered a Guest Lecture on “Conceptualization of Tribal Studies: From Ethnological Perspective” for PG Diploma students on 29th November 2023.

Dr. D.V. Prasad - delivered a Special Invited Talk on “Decolonizing the Concept of Tribe: Need for Independent Discourse” in connection with two-day National Seminar on “Reviving the Indian Narratives on the Traditional Communities Residing in the Hills and Forests” organized by Indira Gandhi National Centre for Arts (IGNCA), New Delhi during 21-22 November 2023.

Dr. D.V. Prasad - Delivered a Guest Lecture on “Tribal/Traditional Ecological Knowledge” for PG Diploma students on 16th January 2024.

Dr. D.V. Prasad - delivered a Guest Lecture on “Tribal/Traditional Medicines & Healing Process” for PG Diploma students on 18th January 2024.

Dr. D.V. Prasad - Resource Person for UGC Online Refresher Course on Tribal Culture, Heritage, and Folklores (IDC) for university and college teachers organized by Centre for Professional Development in Higher Education UGC-MMTTC, University of Delhi & delivered a lecture on “Traditional Knowledge and Biodiversity Conservation” on 17th February 2024.

Dr. D.V. Prasad - delivered a Guest Lecture on “Doing Ethnographic Fieldwork” for PG Diploma students on 7th March 2024.

Dr. D.V. Prasad - Panel Speaker on the topic “Mining and Uncertain Livelihoods among the Baiga of Chhattisgarh” in the panel on Scheduled Tribes and Livelihoods: Land, Labour, and Employment jointly organized by Dept. of Anthropology, University of Hyderabad and Institute for Human Development, New Delhi on the occasion of 64th Indian Society of Labour Economics (ISLE) Conference held at University of Hyderabad at Hyderabad on 30th March 2024

Dr. Shivani Chandel - delivered an invited lecture titled “ Physical Activity in Cognitive Frailty and Sarcopenia” in a meeting on Frailty in ageing at South Asian Partner of the Global Partnering Award Ageing Network: South Asia’s (SAAgeNet) inaugural Research Symposium and Knowledge Exchange meeting at Lancaster University on January 8-10th, 2024, organized by the Cognitive Frailty Interdisciplinary Network (CFIN) funded by the Biotechnology and Biological Sciences Research Council and the Medical Research Council, both part of the UK Research Institute (UKRI).

Dr. Shivani Chandel - delivered an invited lecture titled "Physical activity in aging: steps towards healthy longevity and well-being" at the national seminar/ Ageing Symposium organized by the International Institute of Health Management Research (IIHMR) in New Delhi from March 15th to 16th, 2024.

Dr. Shivani Chandel - delivered an invited lecture titled " Concept of Research and its Relevance and Utility in Social Milieu" as a resource person in the faculty development program at the National Institute of Public Cooperation and Child Development (NIPCCD).

Dr. Durga Rao Pedada - delivered a session on “Writing up of Research Proposal” in a Workshop on Research Methods in Forensic Science organized by the Department of Anthropology, University of Delhi, during 23-30 January 2024.

Dr. Meenal Dhall - Resource person in the Pulmonary/Lung function test (PFT/ Spirometry) during the ‘Preventive Health checkup camp for college employees’ organized under the aegis of DBT Star College scheme, on 29th July, 2023 at Hindu College, University of Delhi.

Dr. Abigail Lalnuneng - delivered a talk on Instilling Ethos to Learn, Unlearn and RelearnI at Sri Venkateswara College, University of Delhi, on 29 November 2023, organized by the North East Students' Association (NESA), Sri Venkateswara College, University of Delhi.

M.Sc. Fieldwork to Gairsen Uttarakhand in February 2024, for the collection of anthropological data pertaining to community health, for example, hypertension, HbA1C levels, mental health, demography, adolescent health, etc.

B.Sc fieldwork to Mahendargarh Haryana in March 2024 for Anthropological study on rural communities of Mahendargarh Haryana.

Under Prof. K.N. Saraswathy's ICMR funded research project on Thalassemia (Thalassemia is an inherited blood disorder caused when the body does not make enough of a protein called haemoglobin, an important part of red blood cells), Information Education and Communication (IEC) activities for thalassemia are being done among young adults aged 18-25 years from Delhi-NCR. The assessment of Knowledge, Attitude and Practices for thalassemia are also being covered. Dissemination of knowledge on thalassemia is done.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 11

M.Phil.: 04

ECA/Sports

Ms. Ponnaresseri Sathian Seejal represented India at the World Youth Festival 2024, hosted by Sochi, Russia during March 01 – 07, 2024. She has presented Indian Classical Dance form of Kuchipuddi, accompanied by her team, Kavyakirtii (the Indian Classical Dance Society of Hansraj College, University of Delhi).

Other Significant Information

Research projects funded by major research funding agencies, including an NIH grant, have been undertaken. A total of 35 research publications have been authored, encompassing journals indexed in Scopus, UGC Care, and Web of Science, along with 9 additional publications in peer-reviewed journals. Furthermore, 4 book chapters have been contributed to publications by esteemed publishers such as Springer and Routledge Taylor & Francis. Currently, a first pregnancy cohort study is underway. Additionally, community immersion activities are integrated into both B.Sc. and M.Sc. courses. M.Sc. Forensic students are actively engaged in training and research endeavors within CFL labs. Screening programs for Thalassemia are conducted among students of various colleges and schools of open learning, promoting awareness of the condition. Moreover, the department is hosting a DST INSPIRE faculty, Dr Sonal Jain (2023 - 2025).

BOTANY

Major Activities and Achievements

The Department of Botany continues to be engaged in a productive manner in both teaching and research. The M.Sc. Botany program imparts education in diverse subject areas related to Plant Sciences with an objective of providing holistic, experiential and an interdisciplinary education to students. Interdisciplinary papers are offered with the involvement of faculty from other departments of Delhi University. The Department faculty is engaged in high quality research on several plant species ranging from algae, bryophytes, pteridophytes and gymnosperms to crop plants and forest trees. Research paradigms range from morphological, anatomical, genetic, physiological and biochemical studies, systematics and evolution, to use of genomics, proteomics and transgenic technologies, study of ecosystems, conservation, and plant-based nanotechnological approaches. This extensive diversity of research paradigms allows students to gain a multidisciplinary outlook and training in cutting-edge technologies. The faculty has an active publication profile and their work is recognized in various National and International forums. The Department regularly organizes seminars/lectures by leading experts in all aspects of plant biology for the benefit of students & faculty.

Honours/Distinctions

Faculty

Prof. R. Deswal - Guest Editor for Physiology and Molecular Biology of Plants (PMBP) special volumes, 2024 volume 30, Issue 1, 2 and 3 entitled Cellular signals and molecular physiology of plant responses.

Prof. R. Deswal - Editorial Fellow, Indian Society of Horticultural Research and Development (ISHRD) (2023-2024).

Prof. R. Deswal - Associate Editor for Frontiers in Plant Physiology (Proteomics and Protein structure, 2021- continuing).

Prof. R. Deswal - Associate Editor for Journal of Proteins and Proteomics (2021- continuing).

Prof. R. Deswal - Editorial board member, Crop Design Journal.

Prof. Rupam Kapoor - Geeta Sumbali Award Lecture for Woman Scientist (2024) by Mycological Society of India.

Prof. Rupam Kapoor - Awarded as "Exemplar of women-led development" by Miranda House College University of Delhi on the occasion of Platinum Jubilee celebration.

Prof. Rupam Kapoor - Listed in the global ranking of top 2% scientists in their respective fields by Stanford University for 2023.

Prof. Rupam Kapoor - Associate Editor "3Biotech" (Agriculturally Important Pathogenic and Symbiotic Fungi) Springer (Impact factor 2.8).

Prof. Rupam Kapoor - Guest Editor, Special issue Frontier in Plant Science (FPS, IF 5.6).

Prof. Rupam Kapoor - Associate Editor "Vegetos" Springer Nature.

Prof. Rupam Kapoor - Editor in-Chief (2023-till date) "Kavaka" quarterly journal published by Mycological Society of India.

Publications

Scopus

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Dhyani, A., Shantanu, K., Kholia, B.S. and Uniyal, P.L. (2023). A preliminary assessment of bryophyte diversity in some alpine areas of East Sikkim, India. *Indian Journal of Forestry*, 46(1), 43-49.

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Books/Chapter in Books

Sandip Das and Swati Singh, (2024), Non-coding regulatory RNAs In Plants: Are These Magic Bullets for Imparting Climate Resilience in Crops? In: Penna Suprasanna, Vinay Kumar, Ashish K. Srivastava, (Eds): Non-Coding RNAs: Molecular Tools for Crop Improvement. 10.1201/9781003369288-1, Boca Raton, USA, CRC Press; Taylor & Francis, 9781003369288, pp 1-40.

Research Projects

Dr. Ratul Baishya - Institute of Eminence, DU , Investigating the effect of Lead and Nickel phytotoxicity in antioxidant activity, lipid peroxidation and proline content in different Himalayan moss species, 5 Lakhs

Prof. Girish Mishra - Institute of Eminence, DU, To investigate the role of phosphatidic acid interactions with Catalase proteins from *Arabidopsis* during abiotic stress, 5 Lakhs

Prof. Renu Deswal - Institute of Eminence, DU , Detection and purification of lipid transfer proteins (LTPs) and cutinsomes from *Brassica* cuticle proteins and translational potential of cuticle, 5 Lakhs

Dr. C.S. Seth - Institute of Eminence, DU, Unraveling the green synthesized titanium dioxide nanoparticles potential in regulating the photosynthesis, lipid peroxidation, and ascorbate-glutathione cycle on *Helianthus annuus* L. under chromium (VI) accumulation, 5 Lakhs

Dr. C.S. Seth - Institute of Eminence, DU, Investigation on titanium dioxide nanoparticles mediated protective mechanisms in *Helianthus annuus* L. at morphophysiological, biochemical, and cellular attributes against chromium (VI) accumulation, 5 Lakhs

Seminars Organized

J.S. (Pat) Heslop-Harrison, Professor , Department of Genetics and Genome Biology, University of Leicester, UK, University of Delhi and Delhi University Botanical Society, J.S. (Pat) Heslop-Harrison, Professor Cell Biology and Molecular Cytogenetics Department of Genetics and Genome Biology, University of Leicester, UK delivered a lecture on “Botany: From Evolution and Phylogeny to Biodiversity and Sustainability”, 25-09-2023.

Prof. Trilochan Mohapatra, Professor, University of Delhi and Delhi University Botanical Society, Prof. Trilochan Mohapatra delivered a lecture on "Biotechnology for sustainable use of biodiversity to secure our food system", 18-10-2023.

Prof. Usha Vijayraghavan, Professor, University of Delhi and Delhi University of Botanical Society, Prof. P. Maheshwari Memorial Lecture (Hybrid) lecture on “Codes for making of a rice flowering stem: Roles for evolutionary conserved transcription factors”, 09-11-2023.

Dr. A.A. Mao and Prof. Shailendra Goel, Professor, Delhi University of Botanical Society, MoU signing ceremony between Department of Botany and BSI and a lecture by Director, BSI “Floristic Wealth of India and its Bioeconomic Potential”, 23-11-2023.

Dr. Firoz Hossain, Principal Scientist, Division of Genetics, Delhi University of Botanical Society, Scientific Lecture a lecture on “Learning genetics through maize cobs: A novel teaching tool”, 01-12-2023.

Prof. Soumendra Mohan Patnaik, HOD, Dept. of Anthropology, Delhi University of Botanical Society, Darwin Week Celebration Lecture on “Fossil Trails: A theory of Human Evolution.”, 14-02-2024.

Dr. Vibhuti Aggarwal Prof. Renu Deswal, General Partner at Realtime Angel Fund, Venture Capital and Private Equity Principals, Gurugram, Haryana. , Delhi University of Botanical Society, Startup by Realtime X, A lecture on “Things to know before starting a Startup”, 20-02-2024.

Dr. Shirshendu Mukherjee, Programme Management Unit (DBT- BIRAC-BMGF-Wellcome Trust). , Delhi University of Botanical Society, Career Counselling Session A lecture on “Career Opportunities in Life Sciences”, 28-02-2024.

Dr. Shashank Mauria, Dr. Bhagwan Das, Dr. Anuradha Agrawal, Mr. Kunal Satyarthi, Dr. Vijay Rani Afternoon session: Dr. P. Burman, Ms. Poonam Dewan, Ms. Bhavya Khanna, Dr. S. Natesh. , NA, Morning session: Dr. Shashank Mauria, Dr. Bhagwan Das, Dr. Anuradha Agrawal, Mr. Kunal Satyarthi, Dr. Vijay Rani Afternoon session: Dr. P. Burman, Ms. Poonam Dewan, Ms. Bhavya Khanna, Dr. S. Natesh. , Pathways forward: Career Guidance Event, 02-03-2024.

Dr. Anil Yadav, Dr. Leela wati and Prof. Suman Lakhanpaul , Professor, University of Delhi and CCHAU, Hisar , Organic farming and Biofertilizers, 12-08-2023.

Dr. R.P.S. Dalal and Prof. Suman Lakhanpaul, Professor, University of Delhi and CCHAU, Hisar, Floriculture and Horticulture, 21-08-2023.

Dr. Satpal Baloda and Prof. Suman Lakhanpaul, Professor, University of Delhi and CCHAU, Hisar, Nursery, landscaping and Gardening, 27-08-2023.

Dr. Arvind Malik and Prof. Suman Lakhanpaul, Professor, University of Delhi and CCHAU, Hisar, Hydroponics and Aeroponics farming, 08-09-2023.

Prof. Veena Agrawal (Retired), Prof. S.S. Bhojwani (Retired), Prof. S.L. Kothari (Retired), Prof. S.B. Babbar (Retired), Prof. Rakhi Chaturvedi and Prof. Suman Lakhanpaul , Professor, University of Delhi and CCHAU, Hisar , Skill Development in cultivating green future Plant tissue culture and Its applications, 30-03-2023.

Seminar/Conference Presentations (National / International)

International

Renu Deswal

Decoding plant (Brassica juncea) Protein corona for informed nano-bioengineering. Proteomics in Biotechnology and Biomedical Sciences. Translational Health Science and Technology Institute (THSTI), Faridabad.

Confirming multiple forms of S-nitrosogluthathione reductase (GSNOR) from Brassica juncea. 9th Plant Nitro Oxide International Meeting. National Institute of Plant Genome Research (NIPGR), New Delhi.

Low abundant myrosinases Nitrosylation suggest myrosinases involvement in nitric oxide signalling in Brassica juncea. 9th Plant Nitro Oxide International Meeting. National Institute of Plant Genome Research (NIPGR), New Delhi.

Proteome Analysis of Indian Seabuckthorn to detect and purify antifreeze proteins (AFPs) and to decipher stress adaptive mechanisms at different altitudes. National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges. Uttarakhand Council for Biotechnology & Society for Plant Research, Biotech Bhavan, Haldi, Pantnagar, Near Pantnagar Police Station Haldi, U. S. Nagar.

Proteome analysis of Indian Seabuckthorn to understand physiological adaptation under stress at different altitudes. Progressive Horticulture Conclave (PHC-2024). Indian Society of Horticultural Research and Development (ISHRD), Navsari, Gujarat.

Brassica cuticle proteome analysis unearth's novel and existing features of cuticle, including non-protein antifreeze activity in leaf surface. 15th annual meeting of Proteomics Society, Indian- International conference on Integrated Proteomics: Application in food, nutrition and health. National Institute of Plant Genome Research (NIPGR), New Delhi.

S-nitrosoproteome analysis in Brassica juncea from apoplast to nucleus during cold stress. 9th Plant Nitro Oxide International Meeting. National Institute of Plant Genome Research (NIPGR), New Delhi.

Understanding the putative role of Nitric Oxide in growth and development of Dioscorea alata tubers. 9th Plant Nitro Oxide International Meeting. National Institute of Plant Genome Research (NIPGR), New Delhi.

Rajesh Tandon

Reproductive Biology and Conservation of Threatened Mutualistic Interactions. "Reproductive Biology and Conservation of Threatened Mutualistic Interactions" Refresher's Course in Botany. North Eastern Hill University, Shillong.

Prof. Chavali Kameswara Rao Endowment Lecture: Experimental Studies on Eco-evo-developmental Dynamics of Floral Nectaries. XXXIII Annual Conference of Indian Association of Angiosperm Taxonomy. Indian Association for Angiosperm Taxonomy & Calcutta University.

Keynote Lecture: Climate change, Shifting Phenologies, and plant-pollinator interaction. Training workshop on Monitoring Plant Phenology in Era of Climate Change. SERB & Department of Botany, University of Kashmir, March 04th-05th 2024.

Manu Agarwal

Engineering Heat Resilience in Rice: A Climate Change Countermeasure. National Conference of Plant Physiology. ICAR-IARI, New Delhi.

Sandip Das

Molecular markers as tools for Genetic diversity and Germplasm Analysis. Plant Diversity and Conservation. Department of Botany & UGC- Human Resource Development Centre, Guru Ghasidas Vishwavidyalaya, Bilaspur (Chhattisgarh).

Genome Organisation, Evolution and Function: Deconstructing Complex Polyploid Brassicaceae Genomes Is Key To Crop Improvement. Professor H.C. Arya Memorial Gold medal Award Lecture. Delivered in

Recent Advances In Plant Biotechnology, And 45 Annual Meeting Of Plant Tissue Culture Association (India). Department Of Biotechnology, School Of Life Sciences, Pondicherry University, Puducherry-605014; January 23-25, 2024.

Yashwanti Mudgil

Understanding Molecular Basis of Plant Stress Mechanisms using NDL-AGB1 module from *Arabidopsis thaliana*. International conference on 'Biotechnology and Human Welfare: Vision 2030 and Beyond (ICBHW-23). The Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana.

Dinabandu Sahoo

Assessment of Nutritional Constituents Content and Biomedical Aspects of Five *Gracilaria* Species: A Multivariate Analysis. National Conference on Blue Economy Navigating Marine Ecosystem value chain. Blue economy.

National/International MoUs Signed

A memorandum of Understanding was signed between Department of Botany and Botanical Survey of India.

Students under Exchange Programme: One (01)

Placement Details: Three (03)

Extension and Outreach Activities

The Department of Botany and Delhi University of Botanical Society organized "Endeavour: Sports Day event" in the premises of Department of Botany on 9th December, 2023.

29 PG students of Botany from Nagaland University visited Department of Botany on 23rd Jan 2024. Visited our well equipped labs and also interact with faculty and research scholars of the Department.

From DPS Mathura Road 67 students of Class XII along with HOD Biology and other staff members visited Biotechnology Lab at Department of Botany, University of Delhi on 18-11-2022 (Friday).

Russian delegate visited to the department of Botany to see the labs and facilities for the students.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 15

CHEMISTRY

Major Activities and Achievements

The Department of Chemistry is one of the premier teaching and research Departments in the country. The spectrum of research areas pursued here is broad, ranging from experimental to theoretical studies on

chemical biology, synthetic methodology development, electrochemistry, polymers, bio-organic, coordination, green material, medicinal, natural products, nano-, and synthetic chemistry. In the last one-year, faculty members published more than 150 research papers in high-impact peer-reviewed journals and 39 Ph.D. degrees were awarded. Apart from collaborating internationally, faculty members were invited to share their work through keynote, plenary and invited lectures in national/international conferences and various institutions. Extramural research projects secured by faculty facilitated in developing and upgrading state-of-the-art laboratory facilities and in training young research scholars. Many faculty members were conferred prestigious medals, honors and awards. Several M.Sc students graduating from the Department chose to pursue Ph.D. in chemistry in reputed global institutions.

Honours/Distinctions

Faculty

Prof. Diwan S. Rawat – Appointed Vice Chancellor, Kumaun University, Nainital.

Prof. M. D. Milton - Appointed as an Associate to the American Chemical Society (ACS) Committee on Chemical Safety (2024).

Prof. Sasanka Deka - IoE-DU best research publication award 2023 (Q1 journal).

Associate editor: Frontiers in Nanotechnology.

Prof. Sandeep Kaur - IoE-DU best research publication award 2023 (Q1 journal).

Prof. Rama Kant - Elected Convener of CRSI Local Chapter of the region, Delhi (2020-2023).

Listed in the World Ranking of Top 2% World's Scientists Consecutive four years (2020-2023) of Stanford University in Category: Physical Chemistry, Sub-Category-Energy.

Publications

Research Articles

Scopus

Agarwal, T., & Kaur-Ghumaan, S. (2023). [FeFe] Hydrogenase: 2-Propanethiolato-Bridged {FeFe} Systems as Electrocatalysts for Hydrogen Production in Acetonitrile-Water. *European Journal of Inorganic Chemistry*, 26(11), e202200623.

Boone, M., Artizzu, F., Goura, J., Mara, D., Van Deun, R., & D'hooghe, M. (2024). Lanthanide phosphonate coordination polymers. *Coordination Chemistry Reviews*, 501, 215525.

Chakraborty, N., Jha, D., Singh, V. P., Kumar, P., Verma, N. K., Gautam, H. K., & Roy, I. (2023). White-Light-Responsive Prussian Blue Nanophotonic Particles for Effective Eradication of Bacteria and Improved Healing of Infected Cutaneous Wounds. *ACS Applied Materials & Interfaces*, 15(44), 50765-50779.

Chaudhary, P., Len, C., & Singh, S. (2023). Synthesis of chiral salen-Mn^{III} complexes tagged with ionic liquid as recoverable homogeneous catalysts for the oxidative kinetic resolution of (±)-secondary alcohols. *Molecular Catalysis*, 542, 113127.

- Chaudhary, P., Naikwadi, D. R., Biradar, A. V., & Singh, S. (2023). Heterogeneous chiral covalent organic framework for the enantioselective epoxidation of styrenes and chromenes. *Langmuir*, 39(31), 10925-10934.
- Dandia, A., Chauhan, S., & Milton, M. D. (2023). Oxidation of Polycyclic Aromatic Hydrocarbons with Mono-Oxygen Donors Catalysed by Triaryl-Manganese(III) Corroles. *Current Organic Chemistry*, 27(19), 1728-1737.
- Gandhi, S., & Roy, I. (2023). Lipid-Based inhalable micro-and nanocarriers of active agents for treating non-small-cell lung cancer. *Pharmaceutics*, 15(5), 1457.
- Ghatak, T., Shah, C., Althagafi, I., Giri, N. G., Nath, M., & Pratap, R. (2024). Iodine/DMSO-mediated one-pot access towards 1-aryl-2-(pyrazol-5-yl) ethane-1, 2-diones via a domino reaction from functionalized pent-2-ene-1, 5-diones. *Organic & Biomolecular Chemistry*, 22(9), 1859-1870.
- Goel, H., Gupta, C., & Kant, R. (2023). Extraction of RMS roughness of Pt, Au and graphene electrodes using electrochemical impedance spectroscopy. *Journal of Chemical Sciences*, 135(3), 87.
- Goel, H., Kumar, R., & Kant, R. (2023). Modular theory for EIS response of electron transfer coupled with electric double layer on rough and heterogeneous electrode. *Electrochimica Acta*, 468, 143125.
- Gope, B., Mishra, A., & Awasthi, S. K. (2024). Rhodium (III)-Catalyzed C–H Activation in Indole: A Comprehensive Report (2017–2022). *Synthesis*, 56(12), 1815-1842.
- Gupta, D., Roy, I., & Gandhi, S. (2023). Metallic nanoparticles for CT-guided imaging of tumors and their therapeutic applications. *OpenNano*, 12, 100146.
- Kaim, V., Joshi, M., Stein, M., & Kaur-Ghumaan, S. (2023). Mono-nuclear ruthenium catalyst for hydrogen evolution. *International Journal of Hydrogen Energy*, 48(79), 30718-30731.
- Kant, R., & Mishra, G. K. (2023). Theory for Heterogeneous Electron Transfer Kinetics on Nanocorrugated Atomic Stepped Metal Electrodes. *The Journal of Physical Chemistry C*, 127(14), 6884-6899.
- Kiran, Ranolia, A., Priyanka, Bala, I., Jangir, J., Singh, S., Sindhu, J., Kumar, P., & Singh, D. (2024). Rationally designed dual channel reversible probe for cyanide recognition in aqueous medium with solid-state sensing abilities. *Journal of Photochemistry and Photobiology A: Chemistry*, 453, 115650.
- Kiran, Ranolia, A., Rani, P., Joshi, G., Kumar, R., Kumar, S., Kumar, P., Singh, S. and Sindhu, J. (2024). Precisely designed NIR based conjugated framework as a solid-state emitter for selective recognition of cyanide ion in solid state and cancer cells. *Journal of Photochemistry and Photobiology A: Chemistry*, 449, 115373.
- Kritika, Pant, M., Yadav, M., Verma, A. K., Mahapatro, A. K., & Roy, I. (2023). Comparative analysis of cobalt ferrite and iron oxide nanoparticles using bimodal hyperthermia, along with physical and in silico interaction with human hemoglobin. *Journal of Materials Chemistry B*, 11(21), 4785-4798.
- Kumar, A., Purkayastha, S. K., Guha, A. K., Das, M. R., & Deka, S. (2023). Designing nanoarchitecture of NiCu dealloyed nanoparticles on hierarchical Co nanosheets for alkaline overall water splitting at low cell voltage. *ACS Catalysis*, 13(16), 10615-10626.
- Kumar, J., & Roy, I. (2023). Dye-linked Upconverting Nanophosphor-based Ratiometric Chemosensor for NIR-excited and FRET-mediated Ultrasensitive Detection of Sulfide Ions. *ChemistrySelect*, 8(20), e202204576.

- Kumar, J., & Roy, I. (2023). Rhodamine Derivative-Linked Silica-Coated Upconverting Nanophosphor (NaYF₄: Yb³⁺/Er³⁺@ SiO₂-RBDA) for Ratiometric, Ultrasensitive Chemosensing of Pb²⁺ Ions. *Chemosensors*, 11(5), 305.
- Kumar, J., & Roy, I. (2024). Upconverting nanophosphors for various sensing applications. *Talanta Open*, 9(9), 100302.
- Kumar, L., Antil, B., Kumar, A., Das, M. R., López-Estrada, O., Siahrostami, S., & Deka, S. (2023). Experimental and computational insights into the overall water splitting reaction by the Fe–Co–Ni–P electrocatalyst. *ACS Applied Materials & Interfaces*, 15(47), 54446-54457.
- Kumar, S., Kecke, K.V., & Meyer, F. (2023). Insight into unusual supramolecular self-assemblies of terthiophenes directed by weak hydrogen bonding. *International Journal of Molecular Sciences*, 24(13), 11127.
- Lamoria, M., & Milton, M. D. (2023). Novel Y-shaped multi-stimuli responsive pyrene substituted quinoxaline and pyridopyrazine-based push-pull molecules showing solvatochromism, aggregation induced excimer emission, acidofluorochromism and moisture detection. *Dyes and Pigments*, 213, 111182.
- Lamoria, M., Kakkar, R., & Milton, M. D. (2024). Oxazoline-appended benzimidazolium salts for selective micromolar detection of Fe³⁺ ions in water and an experimental and theoretical insight into Fe³⁺ ion sensing mechanism. *Journal of Photochemistry and Photobiology A: Chemistry*, 447, 115267.
- Malinge, A., Kumar, S., Chen, D., Zysman-Colman, E., & Kéna-Cohen, S. (2024). Heavy Atom Effect in Halogenated mCP and Its Influence on the Efficiency of the Thermally Activated Delayed Fluorescence of Dopant Molecules. *The Journal of Physical Chemistry C*, 128(3), 1122-1130.
- Manzer, Z. A., Ghosh, S., Roy, A., Jacobs, M. L., Carten, J., Kamat, N. P., & Daniel, S. (2023). Cell-free synthesis goes electric: dual optical and electronic biosensor via direct channel integration into a supported membrane electrode. *ACS synthetic biology*, 12(2), 502-510.
- Meena, D. R., Meena, S., & Singh, S. (2023). Suzuki-Miyaura cross-coupling reaction catalyzed by Pd (II) complexes of N, O-donor Schiff base ligands. *Polyhedron*, 245, 116655.
- Mishra, A., Mishra, G. K., Singh, N., Kant, R., & Kumar, K. (2024). The rigidity and chelation effect of ligands on the hydrogen evolution reaction catalyzed by Ni(II) complexes. *Dalton Transactions*, 53(4), 1680-1690.
- Mishra, A., Yadav, P., & Awasthi, S. K. (2023). Nitrogen-Enriched Biguanidine-Functionalized Cobalt Ferrite Nanoparticles as a Heterogeneous Base Catalyst for Knoevenagel Condensation under Solvent-Free Conditions. *ACS Organic & Inorganic Au*, 3(5), 254-265.
- Mittal, A., Yadav, M., Biswas, L., Verma, A. K., & Roy, I. (2023). Nanoparticles for combined photo-and chemo-dynamic therapy of cancer cells involving endogenous glutathione depletion. *Nanomedicine*, 18(8), 679-694.
- Muhammad, J., Das, M. R., & Deka, S. (2023). Insight on electrochemical charge storage behavior of naturally surface oxidized amorphous NiCuCoB nanosheets. *Journal of Energy Storage*, 72, 108435.
- Muhammad, J., Das, M. R., & Deka, S. (2024). Exploration of Charge Storage in an Anion-Exchanged Synthesized Sn–Co–Se Nanorod-Based Flexible Symmetric Supercapacitor. *The Journal of Physical Chemistry C*, 128(6), 2370-2379.

- Rani, P., Kataria, R., Kumar, P., Singh, D., Duhan, A., Singh, S., & Sindhu, J. (2024). Rationally designed C-3 sulfenylated 2-phenyl-4H-pyrido [1, 2-a] pyrimidin-4-one based fluorescent probe for recognition of Fe³⁺. *Journal of Molecular Structure*, 1302, 137456.
- Roy, A., Sarangi, N. K., Ghosh, S., Prabhakaran, A., & Keyes, T. E. (2023). Leaflet by leaflet synergistic effects of antimicrobial peptides on bacterial and mammalian membrane models. *The Journal of Physical Chemistry Letters*, 14(16), 3920-3928.
- Ruvubu, S. B., & Roy, I. (2024). Tandem Coating of Gly-Gly-Gly and 2-Mercaptoethylaminehydrochloride on Chitosan Magnetic Nanoparticles for Environmental Remediation of Dyes. *Journal of Polymers and the Environment*, 32(3), 1261-1288.
- Sharma, B., Agarwal, A., & Awasthi, S. K. (2023). Is structural hybridization invoking new dimensions for antimalarial drug discovery research?. *RSC Medicinal Chemistry*, 14(7), 1227-1253.
- Sharma, H., Gupta, A., Kumari, R., Low, M. L., Lim, W. M., & Milton, M. D. (2023). Substituted 1-Azaphenothiazines and Their 10-(2'-Morpholinylethyl) Derivatives: Synthesis, Characterization and Anticancer Evaluation. *ChemistrySelect*, 8(26), e202300873.
- Singh, J., Singh, A., & Nath, M. (2023). Cu^I-catalyzed ligand-free synthesis of 2-aryloxazolo [5, 4-b]-5, 10, 15, 20-tetraarylporphyrins. *Tetrahedron*, 148, 133684.
- Singh, J., Singh, P., & Nath, M. (2023). Cascade Amination and Aza-6 π -Annulation-Aromatization Strategy for the Synthesis of β -Pyrimidine-Fused Porphyrins. *The Journal of Organic Chemistry*, 88(11), 7302-7310.
- Singh, S., Goel, T., Singh, A., Chugh, H., Chakraborty, N., Roy, I., ... & Chandra, R. (2024). Synthesis and characterization of Fe₃O₄@ SiO₂@ PDA@ Ag core-shell nanoparticles and biological application on human lung cancer cell line and antibacterial strains. *Artificial Cells, Nanomedicine, and Biotechnology*, 52(1), 46-58.
- Singh, T., Kumar, S., Thirupathi, N., & Kumar, P. (2023). Palladium (II) complexes derived from N, N'-diarylthiourea: Structural aspects and applications toward Suzuki-Miyaura coupling reactions. *Journal of Molecular Structure*, 1288, 135797.
- Sinha, N. K., Khan, H. A., Sivasankar, C., & Thirupathi, N. (2024). Guanidine-centred reactivity of CNN Pd(II) pincer complexes including carboxylate-assisted N-H activation and -CH₂- \rightarrow -C (O)-oxygenation. *New Journal of Chemistry*, 48(13), 5710-5720.
- Sinha, N. K., Mishra, V., & Thirupathi, N. (2023). Influence of the Steric/Electronic Properties of N-Aryl Substituents in Cycloplatinated Guanidinate (1-) Complexes on the Formation of Discrete Pt \rightarrow Ag Complexes and One-Dimensional Coordination Polymer. *Inorganic Chemistry*, 62(20), 7644-7661.
- Sohel, A., & Singh, S. (2024). Photostable selenium-assisted ZnS nanocomposite with efficient visible light photocatalytic activity. *Functional Composites and Structures*, 6(1), 015004.
- Tekuri, C. S., Singh, P., & Nath, M. (2023). Unravelling a trichloroacetic acid-catalyzed cascade access to benzo [f] chromeno [2, 3-h] quinoxalinoporphyrins. *Beilstein Journal of Organic Chemistry*, 19(1), 1216-1224.
- Ujjval, R., Khan, H. A., Sivasankar, C., & Thirupathi, N. (2024). Efforts to understand the degree of carboxylate substitution in cis-[Pt(S(O)Me₂)(guanidine)Cl₂]: Synthetic, Structural and DFT Studies. *Polyhedron*, 247, 116735.

Yadav, A., Kumar, A., Purkayastha, S. K., Guha, A. K., Ali, M. A., & Deka, S. (2024). Nanoarchitectonics of amorphous Fe–Ni–B nanosheets for high throughput overall water splitting reaction. *International Journal of Hydrogen Energy*, 53, 706-716.

Yadav, D. K., Uma, S., & Nagarajan, R. (2023). Surfactant intercalation in Li-Al-based binary and ternary layered double hydroxides by the microwave-assisted rapid ion-exchange process and its application in iodine adsorption. *Minerals*, 13(3), 303.

Yadav, D. K., Zhang, Q., Gofryk, K., Nair, H. S., & Uma, S. (2023). Evidence of Long-Range and Short-Range Magnetic Ordering in the Honeycomb Na₃Mn₂SbO₆ Oxide. *Inorganic Chemistry*, 62(19), 7403-7412.

Yadav, G. D., Chaudhary, P., Pani, B., & Singh, S. (2023). Pyrrolidine-based C1-symmetric chiral transition metal complexes as catalysts in the asymmetric organic transformations. *Tetrahedron Letters*, 134, 154835.

Yadav, N., Gopalaiah, K., Pandey, J., & Nagarajan, R. (2023). Zircon PrVO₄: an efficient heterogeneous catalyst for tandem oxidative synthesis of 2, 3-disubstituted quinoline derivatives. *Dalton Transactions*, 52(18), 5969-5975.

Books/Chapter in Books

Chandra, R., & Singh, S. (2024). The study and use of covalent bonds in chemistry: New insights and old knowledge (pp. 1-344). Canada, Arcler Press.

Matthew, B. P., Singh, J., & Nath, M. (2024). One-pot three-component selective annulation strategies for the synthesis of bioactive Î²-lactam, pyrrole, and pyridine scaffolds. In: Basu, B., & Banerjee, B. (Eds.), Multicomponent synthesis (pp. 55-116). De Gruyter, Berlin, Boston.

Roy, I. (2023). Interactions of nanoparticles with plants: Accumulation and effects. In: Sen, M., & Mukherjee, M. (Eds.), Bioinspired and green synthesis of nanostructures: A sustainable approach (pp. 157-188). Scrivener Publishing LLC, USA.

Research Projects

Prof. N. Thirupathi - Palladium catalyzed aminocarbonylation of N-substituted guanidines using CsOH/CHCl₃ as CO surrogate. (August 2023 to February 2024) of Rs. 5 lacs (IoE, University of Delhi).

Dr. Shiv Kumar - Development of multi-resonant thermally activated delayed fluorescence (MR-TADF) emitters with high color purity and stability for organic light-emitting diodes (OLEDs). (August 2023 to February 2024) of Rs. 5 lacs. (IoE, University of Delhi)

Prof. Surendra Singh - Synthesis and development of recoverable organocatalysts for asymmetric Biginelli and direct aldol reactions, of Rs. 15 lacs (CSIR).

Dr. Snigdha Singh - Investigate ultrafast phenomena and tuning the radiative lifetime of (II-VI) semiconductor quantum DOTS for solar cell and biological application. of Rs. 18.3 lacs (SERB-TARE)

Dr. Surajit Ghosh - Design of cell free biomembrane platforms on nanoparticle surfaces for the study of membrane-toxins interaction and channel activities. of Rs. 32.99 lacs (SERB-SRG).

Cell-free biomembrane-based assay to evaluate leaflet-to-leaflet membrane fusion events between fusogenic and native membrane vesicles. (August 2023 to February 2024) of Rs. 5 lacs (IoE, University of Delhi).

Dr. Mahipal Yadav - Synthesis and medicinal chemistry of sialic acid-based molecules as anticancer agents. (August 2023 to February 2024) of Rs. 5 lacs (IoE, University of Delhi).

Prof. S. K. Awasthi - Development of heterogeneous catalysts for their application in organic synthesis. (August 2023 to February 2024) of Rs. 5 lacs (IoE, University of Delhi).

Prof. Rama Kant - Theoretical and experimental investigation of transient response of rough rotating disk electrodes: kinetics and diffusion-controlled regimes. (August 2023 to February 2024) of Rs. 5 lacs (IoE, University of Delhi).

Prof. Sandeep Kaur - Schiff base ligand-based metal complexes for electrochemical proton reduction. (August 2023 to February 2024) of Rs. 5 lacs (IoE, University of Delhi).

Patents Filed/Granted

Prof. Sasanka Deka - "Method for manufacturing Sn-based bimetallic chalcogenides and the product thereof", Indian patent application number: 202311052905 Ref. No. TEMP/E-1/61587/2023-DEL Filed for examination on 07/08/2023.

Seminars Organized

Prof. Amarnath Mitra Memorial Lecture, February 27, 2024. Speaker: Prof. Himadri B Bohidar, JNU.

Special Inorganic Lecture, February 27, 2024. Speaker: Prof. Srinivasan Natarajan.

Prof. T. R. Sheshadri Memorial Lecture, February 27, 2024. Speaker: Prof. N. Jayaraman, IISc, Bangalore.

Conferences Organized

International Conference on "Crossroads of Chemistry, Biology and Atmospheric Environment: A Modern Prospective", February 26-28, 2024." Keynote Speakers: Prof. A. K. Singh, IIT Bombay, Prof. Maya S. Singh, BHU, Dr. S. K. Varshney, DST, Prof. Kantaraja Chindera, UK, Prof. Ram Sagar Mishra, JNU, Prof. T. P. Singh, AIIMS, Delhi, Prof. Vibha Tandon, JNU, Dr. Jagvir Singh, MOES, Prof. R. Selvraj, Muscat, Prof. L. Mishra, BHU, Prof. Y. Singh, IIT Ropar, Prof. Ramendra K. Singh, Allahabad University, Dr. S. K. Chaudhary, MHRD, Prof. Asit Kumar Chakraborti, IACS, Prof. Nitin Chattopadhyay, Jadavpur University, Prof. B. Sundaraju, IIT Kanpur, Dr. Ranjana Agrawal, Director, CSIR-NIScPR.

Fostering Sustainable Catalysis, January 19-20, 2024. Keynote Speakers: Prof. Javed Iqbal, Incor Renovis Pharma Private Limited, Hyderabad, Prof. Angela Marinetti, ICSN, CNRS-Université Paris-Saclay, France Prof. Vincent Gandon, ICMO, Université Paris-Saclay, France Prof. Louis Fensterbank, Collège de France, Paris, France, Prof. Mélanie Etheve-Quelquejeu, LCPBT, Université Paris Cité, Paris, Prof. Mélanie Etheve-Quelquejeu: Prof. Véronique Michelet, Université de Nice, France, Prof. David Virieux, ICMO, Université Paris-Saclay, France, Prof. Arnaud Voituriez, ICSN, CNRS-Université Paris-Saclay, France, Prof. Muriel Hissler, ISCR, Rennes Institute of Chemical Sciences, France, Prof. Morgan Donnard, LIMA, Université de Strasbourg, France, Prof. Abderrahmane Amgoune, ICBMS, Université Claude Bernard Lyon 1, France, Prof. Aurélien de la Torre, ICMO, Université Paris-Saclay, France, Prof. Norio

Shibata, Nagoya Institute of Technology, Japan, Prof. D. S. Rawat, Kumaon University, Prof. Vibha Tandon, CSIR-IICB Kolkata, Prof. Bhisma K. Patel, IIT Guwahati, Prof. Chandra M. Volla, IIT Bombay, Prof. Shibdas Banerjee, IISER Tirupati, Dr. Pankaj Chauhan, IIT Jammu, Prof. S. S.V. Ramasastry, IISER Mohali, Dr. Kuntal Manna, IIT Delhi, Prof. M. Sankar, IIT Roorkee, Prof. R. K. Peddinti, IIT Roorkee.

Seminar/Conference Presentations (National / International)

International

Dr. Mahipal Yadav- Invited talk, International conference on Recent Advancements in Chemical and Life Sciences, Jamia Hamdard, New Delhi (October 26, 2024).

Prof. Rama Kant- In situ electrochemical impedance spectroscopic method for determination of surface roughness: Inverse problems, International Conference on Electrochemistry for Industry, Health and Environment (EIHE-2024), VIT, Vellore (February 8, 2024).

Prof. S. Deka-

Nano-architectonics of non-precious metal based electrocatalysts for high throughput overall water splitting reaction, International Conf. on Nano Materials for Energy Conversion and Storage Application (NECSA-2024), Pandit Deendayal Energy University, Gandhinagar, Gujarat (February 21, 2024).

Direct thermal polymerization approach to enrich highly electroactive carbon nitrides and their promising photocatalytic and charge storage activities, 8th International Conference on Electroactive Polymers (ICEP-2024), KIIT, Bhubaneswar (Odisha, India) (February 4, 2024).

National

Dr. Mahipal Yadav-

Plausible protometabolism and catalysis on early earth, Fostering Sustainable Catalysis-2024 (FSC-2024) held at the University of Delhi, Delhi (January 19-20, 2024), Department of Chemistry University of Delhi, Delhi-110007 & Maharaja Surajmal Brij, University Bharatpur, Rajasthan-321201 (January 20, 2024).

Prof. Rama Kant-

Art of battery making: Transcending electrochemical complexity, statistical mechanics in chemistry and biology, SMCB, The Society of Physical Chemistry (SoPhyC), Online Seminar Series: Physical Chemistry in Material Science, Society of Physical Chemistry (March 9, 2024).

In situ electrochemical impedance spectroscopic method for determination of surface roughness: Inverse problems, International Conference on Electrochemistry for Industry, Health and Environment (EIHE-2024), VIT, Vellore (February 8, 2024).

Electron transfer kinetics on random atomically stepped metal surface: theoretical aspects, Stochastic and Nonlinear Dynamics in Chemistry and Biology (SNDNCB-2024), S. N. Bose National Centre for Basic Science, Kolkata (January 4, 2024).

Semi-microscopic theory for long range electron transfer and current rectification in nanogap molecular devices, Annual Convention of Chemists (ACC-2023), IIT Delhi (December 20, 2023).

Theory of electron transfer kinetics for current rectification in molecular device, Chemistry Symposium (TCS-2023), IITM, Chennai (December 7, 2023).

Anomalous heterogeneous electron transfer kinetics on atomically stepped metal electrode, Physical Chemistry Symposium (SoPhyC-2023), IIT Kanpur (October 29, 2023).

Theory for electron transfer on atomically stepped metal electrode/electrolyte interface, Physical Chemistry Symposium (PCS2023) to honour and celebrate the contributions of three IPC colleagues, Prof. P. K. Das, Prof. B. J. Cherayil and Prof. M. Nethaji, IISc Bangalore (July 3, 2023).

Invited Lecture - In situ electrochemical determination of morphological characteristics of electrode, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (September 12, 2023).

Prof. S. Deka-

Resource person, Chemistry Refresher course: Jammu University, Jammu (February 19, 2024).

Inaugural Talk, Advances in nanochemistry for energy conversion and storage, Annual fest, Alchemesis, Chemistry Society of St. Stephen's College, University of Delhi, St. Stephen's College, University of Delhi (February 14, 2024).

Nanoarchitectonics of non-precious metal based electrocatalysts for high throughput overall water splitting reaction, 60th Annual Convention of Chemists (ACC-2023), Indian Chemical Society, (ICS), IIT Delhi (December 20, 2023).

Resource person "Distinguished Lecture Series", Future of Catalysis and Industrial Sustainability, Department of Chemistry, The Assam Royal Global University, Guwahati-35, Assam (May 17, 2023).

Dr. Shiv Kumar-

The dawn of organic electronics: Past, present and future, Fostering Sustainable Catalysis-2024 (FSC-2024) held at the University of Delhi, Delhi (January 19-20, 2024), Department of Chemistry University of Delhi, Delhi-110007 & Maharaja Surajmal Brij, University Bharatpur, Rajasthan-321201 (January 20, 2024).

National/International MoUs Signed

Department of Chemistry University of Delhi, Delhi-110007 & Maharaja Surajmal Brij, University Bharatpur, Rajasthan-321201.

Placement Details

Number of students placed: 4

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 39

Faculty Strength

Professor: 27

Associate Professor: 2

Assistant Professor: 8

Guest: 12

ENVIRONMENTAL STUDIES

Major Activities and Achievements

The Department teaches and researches through its two post-graduate courses in Environmental Studies (M.A. and M.Sc.) and Ph.D. program. Each year, we admit 68 students (M.Sc. 39 and M.A. 29) from varied academic backgrounds across various disciplines through an all-India entrance test conducted by the National Testing Agency. The department has Fifteen regular faculty members involved in teaching and research in fundamental and applied aspects of ecology and environment. The department is actively involved in socially relevant research connected to national development and environmental health, thereby mitigating issues arising from environmental degradation. The faculty has successfully secured extramural research projects over the years, which has helped develop state-of-the-art laboratory facilities and train research scholars leading to publications in top-tier journals such as Nature, Science, and other high-impact journals. The faculty members are recognized globally, collaborating widely with international experts, and delivering keynote and plenary lectures on their research findings at National and International Institutions/conferences.

Honours/Distinctions

Faculty

Dr. Shailender Kumar Verma - Newton International Fellowships Alumni award by the Royal Society (London), United Kingdom (2023). Global Outreach-Contributing member of the American Society for Microbiology, USA (2023).

Prof. David Kothamasi - Visiting Professor/ Academic Visitor, University of Strathclyde, Glasgow, United Kingdom.

Prof. Inderjit - Awarded JC Bose National Fellowship grant. Excellence Award conferred by the University of Delhi to recognize outstanding service and contributions to research and academic activities at the University.

Publications

Research Articles

Scopus

Barhadiya, G., Purkayastha, J., Saha, A. K., & Ghosh, C. (2024). Spatial and temporal assessment of snake encounters in urban Delhi, India. *Scientific Reports*, 14(1), 5506.

Bhagchandani, T., Haque, M. M., Sharma, S., Malik, M. Z., Ray, A. K., Kaur, U. S., ... & Tandon, R. (2024). Plasma Virome of HIV-infected Subjects on Suppressive Antiretroviral Therapy Reveals Association of Differentially Abundant Viruses with Distinct T-cell Phenotypes and Inflammation. *Current Genomics*, 25(2), 105-119.

Dixit, H., Kulharia, M., & Verma, S. K. (2023). Metal-binding proteins and proteases in RNA viruses: unravelling functional diversity and expanding therapeutic horizons. *Journal of Virology*, 97(12), e01399-23.

- Dixit, H., Kulharia, M., & Verma, S. K. (2023). Metalloproteome of human-infective RNA viruses: a study towards understanding the role of metal ions in virology. *Pathogens and Disease*, 81, 1-10.
- Goswami, V., Deepika, S., Diwakar, S., & Kothamasi, D. (2023). Arbuscular mycorrhizas amplify the risk of heavy metal transfer to human food chain from fly ash ameliorated agricultural soils. *Environmental Pollution*, 329, 121733.
- Goyal, N., Tripathy, M., Singh, V., & Sharma, G. P. (2023). Transformative Potential of Higher Education Institutions in Fostering Sustainable Development in India. *Anthropocene Science*, 2(2), 112-122.
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Books/Chapter in Books

- Deepika, S., Goswami, V., & Kothamasi, D. (2023). Arbuscular mycorrhizal fungi (AMF) and climate smart agriculture – prospects and challenges. In: Ansari, W., Singh, A.K., & Tuteja, N. (Eds.), Global climate change and plant stress management (pp. 175-200). John Wiley & Sons Ltd, Chichester, United Kingdom.

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Sardar, M., & Urfi, A.J. (2023). Artistic and literary contexts. Ornithology and natural history studies in India-The Mughal and early British periods, In: *Women, environment, and networks of empire*. In: Winterbottom, A., Dickenson, V., Cartwright, B., & Williams, L. (Eds.), Elizabeth Gwillim and Mary Symonds in Madras (pp. 159-178). McGill-Queen's University Press, Canada.

Urfi, A.J. (2024). *The painted stork: Exploring ecology and conservation in India* (pp. 1-208). Pelagic Publications, U.K.

Research Projects

Dr. Alok Kumar - Biogeochemical transformation and fate of reactive nitrogen species in the aquatic ecosystems of semi-arid region of Rajasthan. of Rs. 44.56 lacs (Science & Engineering Research Board (SERB), Ministry of Science & Technology, Government of India).

IoE, University of Delhi, Faculty Research Programme – Environmental Science, of Rs. 5.0 lacs.

Dr. Shailender Kumar Verma - Wheat metallome analysis and development of mineral micronutrient-related gene-specific molecular markers for biofortification programs. of Rs. 49.0 lacs (Scheme for Transformational and Advanced Research in Sciences (STARS) Grant, Ministry of Education (MoE), Government of India).

Development and characterization of climate-resilient biofortified crops: An approach towards climate-smart agriculture. of Rs. 36.88 lacs (Science & Engineering Research Board (SERB), Ministry of Science & Technology, Government of India).

Dr. Ashwini Kumar Ray - A multi-omics approach to understanding the impact of climate change on heart failure using *Caenorhabditis elegans* as an animal model. of Rs. 39.68 lacs (DHR-ICMR Govt of India).

Dr. Atinderpal Singh - Chemical and optical characteristics of brown carbon aerosols over the northwestern Indo-Gangetic plain. (August 2023 to February 2024) of Rs. 5.0 lacs (IoE, University of Delhi)

Dr. Kalyan Yakkala - Development of optically responsive polymer sheets and membranes for monitoring toxic gases and air pollutants, 39.84 lacs (BRNS-DAE, Govt. of India).

Prof. Gyan Prakash Sharma - Impacts of invasive species on native arthropod abundance, and diversity across environmental and geographic gradients in India. of Rs. 14 lacs (SERB, DST, GoI)

Prof. Vandana Mishra - Impact Assessment of Hydropower Plants. of Rs. 30.0 lacs (WAPCOS-Water and Power Consultancy Services (India) Limited).

Institute of Eminence, University of Delhi, Faculty Research Programme – Environmental Science, (August 2023 to February 2024) of Rs. 5.0 lacs.

Prof. Chirashree Ghosh - Remediating waste using waste: Green nanotechnology for the removal of potentially toxic elements, 3.0 lacs (IoE, University of Delhi).

Raising awareness on urban air quality, climate change, health and e-resilience. of Rs. 29.23 lacs (DST, New Delhi).

Spreading awareness on emerging challenges of air pollution and climate change on human health in urban ecosystem. of Rs. 39.94 lacs (DST, New Delhi).

Risk assessment of 'Sick building Syndrome' in relation to size segregated bioaerosol in the Institutional environment of University of Delhi. (August 2023 to February 2024) of Rs. 5.0 lacs (IoE, University of Delhi).

Prof. Radhey Shyam Sharma - Integrated project on the restoration and restitution of degraded landscapes and waterscapes. of Rs. 46.0 lacs (M/s Simbhaoli Sugar Ltd).

IoE, University of Delhi, Faculty Research Programme – Environmental Science. (August 2023 to February 2024) of Rs. 5.0 lacs.

Seminars Organized

Prof. Chirashree Ghosh -Department of Environmental Studies, University of Delhi, Under the aegis of MoEFCC, “lifestyle for the environment” at Miranda House College, June 2, 2023.

Prof. James Hanken - Former Director, Museum of Comparative Zoology, Harvard University, “Evolution of lung loss in terrestrial vertebrates”, July 6, 2023.

Prof. Markus Leuenberger, Professor, Physics Institute, University of Bern, Department of Environmental Studies, University of Delhi; Centre for Interdisciplinary Studies of Mountain and Hill Environment, Jungfrauoch (Top of Europe): History and Research in the field of Environment and Climate Sciences, March 21, 2023.

Conferences Organized

“Spreading awareness on emerging challenges of air pollution and climate change on human health in urban ecosystem”, at Adarsha Nagar Vistar, Delhi, March 16, 2024. Speakers: Atul Tripathi, Founder, Smile Youth India Foundation and Vijay Pandey, Advocate.

“Raising awareness on urban air quality, climate change, health and e-resilience” at Acharya Narendra Dev College, University of Delhi, November 28, 2023. Speakers: Prof. Shachi Shah, School of Interdisciplinary and Transdisciplinary Studies, IGNOU, Prof. Namita Rajput, Sri Aurobindo College, University of Delhi and Mr. Gaurav, Department of Environmental Studies, University of Delhi.

“Spreading awareness on emerging challenges of air pollution and climate change on human health in urban ecosystem” at Maitreyi College, University of Delhi, November 9, 2023. Speakers: Prof. Chandan Ghosh, Director, Resilient Infrastructure Division, National Institute of Disaster Management, Prof. Gyan Prakash Sharma, Department of Environmental Studies, University of Delhi and Dr. P. Kavita, Maitryi College, University of Delhi.

“Raising awareness on urban air quality, climate change, health and e-resilience” at Bhaskaracharya College of Applied Sciences, University of Delhi, October 10, 2023. Speakers: Prof. Balaram Pani, Dean

of Colleges, University of Delhi and Dr. Arun Kumar Shrivastava, School of Environmental Sciences, Jawaharlal Nehru University.

“Raising awareness on urban air quality, climate change, health and e-resilience on community workshop” at Qutub Vihar Sector- 19 Dwarka, New Delhi, September 18, 2023. Speakers: Shri RK Singh, Ex-consultant and advisor Ministry of Social Justice Government of India and Shri Sumant Shekhar, Founder and CEO of Lakshya Society for Social and environmental Development NGO.

“Raising awareness on urban air quality, climate change, health and e-resilience” on June 5, 2023 (World Environment Day, 2023) at the Department of Environmental Studies, University of Delhi. Speakers: Prof. Javed Ahmad, President of National Environmental Science Academy Former Dean, Faculty of Science, Jamia Hamdard and Prof. Gyan Prakash Sharma, Department of Environmental Studies, University of Delhi.

“Under the aegis of MoEFCC, environmental Issues”, at Daulat Ram College, University of Delhi in collaboration with Dhara Eco Club, May 24, 2023. Speakers: Prof. Chirashree Ghosh, Department of Environmental Studies, University of Delhi and Mrs. Pooja Khandelwal, Sr. Project Coordinator, EcoPrabhandan.

“Raising awareness on urban air quality, climate change, health and e-resilience” on June 22, 2023, (Human Well Being) at the Department of Environmental Studies, University of Delhi, May 22, 2023. Speakers: Mr. Sanjeev Kumar and Ms. Lehar, Human well-being NGO.

“Raising awareness on urban air quality, climate change, health, and e-resilience” at Miranda House, University of Delhi, April 18, 2023. Speakers: Dr. O.P. Mishra, Scientist-G Director of National Centre for Seismology, Ministry of Earth Sciences, Govt. Of India and Prof. D.M. Banerjee, Department of Geology, University of Delhi.

Seminar/Conference Presentations (National / International)

National

Ashwini Kumar Ray -

To decipher the inherent linkage between Indian culture and environmental sustainability, National conference on environmental sustainability solution through technology and indigenous knowledge system, Rajasthan Technical University Kota, Rajasthan (October 9, 2023).

Bharath G. -

Microbial electrochemical technologies for renewable energy, Empowering the future with microbial electrochemical technologies for renewable energy, NTR Government Degree College for Women, Mahabubnagar, Telangana (May 5, 2023).

Effects of catalysts on anaerobic digestion, 2nd International symposium on Emerging trends in synthesis and Catalysis, Amity University, Noida (April 12, 2024).

Chirashree Ghosh -

“Environment & public health: Recent challenges, Environment & public health: Recent challenges”, One day Hindi Sammelan at CSIR-National Physical Laboratory (March 15, 2024).

"Environment sustainability, Environment Conclave - Environment sustainability: A route towards a Vikshit Bharat", Aranyani, Environment Society at Satyawati College (March 13, 2024).

“Sustainable water management, Karyashala - The crucial role of sustainable water management in achieving SDG 6”, Amity University, Noida (February 16, 2024).

“Urban metabolism of river Yamuna in the National Capital Territory of Delhi, India, World Wetland Day”, Aurobindo College (February 8, 2024).

Industrial Waste Management...NCR of Delhi, Skill Training Program, NEERI zonal office, Delhi (January 10, 2024).

What is Gender – Environment Sustainability Nexus? Three-month value-added courses on sustainable pathway to ESG, CESDM, Miranda House College (October 3, 2023).

Air Pollution: Its implications, mitigation & planning, Air Pollution: Its implications, mitigation & planning innovative action, IGNOU (September 23, 2023).

Sick building syndrome in urban system, NIDM (September 1, 2023).

Understanding climate change & its impact, LSR College (July 17, 2023).

Effect of bioaerosols....in North Indian Population, 14th AFOB Regional Symposium, Regional Centre for Biotechnology (RCB), Faridabad (April 24, 2023).

Kalyan Yakkala -

Membrane-based adsorbents for monitoring toxic metal ions in polluted waters, 60th Annual Convention of Chemists, IIT Delhi (December 20, 2023).

Other Inter-Institutional Collaboration

Prof. Inderjit –

University of Montana, USA

University of Toronto, Canada

Montana State University of Montana, USA

Max Planck Institute for Chemical Ecology, Germany

Martin-Luther University Halle, Germany

Institute of Botany, Czech Republic

Indian Institute of Sciences, Bangalore

National Center of Biological Sciences, Bangalore

Prof. David Kothamasi - University of Strathclyde, Glasgow, United Kingdom.

Prof. Chirashree Ghosh - India Meteorological Department, Government of India Indian Agriculture Research Institute

Placement Details

Number of students placed: 10

Extension and Outreach Activities

The students of the Department of Environmental Studies, University of Delhi organized a one-day awareness program on World Wetland Day.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 5

Faculty Strength

Professor: 10

Assistant Professor: 6

Social Outreach

The department faculty is engaged in environmental awareness programs throughout the NCR.

Other Significant Information

Prof. Chirashree Ghosh

Invited to participate as a panel Speaker & Session Convener (Session 3) at the International Geological Congress (IGC)- IUGS, 2024 at Busan, Korea from August 25-31, 2024.

Environmental Science Paper setter of UPSC examination; Selection & Promotional committee member of CSIR, MoEF & DU; Area Advisory Board member of Amity University.

Founder Member, Centre for Environmental Studies and Disaster Management, Miranda House (CESDM), University of Delhi, November 2021- onwards.

Founder Member, Centre for Environment and Disaster Management (CEDM), Shivaji College, University of Delhi, 2022 onwards.

GEOLOGY

Major Activities and Achievements

Faculty members of the Department have carried out research works in different geological terrains of India beside their regular teaching duty. Dr. Anindita Dey published three research papers. Prof. Anupam Chattopadhyay carried out research activities in the Ranakpur shear zone of the Delhi Fold Belt. Prof. Ashutosh Singh carried out studies on the ODP Hole 762B in the Eastern Indian Ocean. Dr. Ashima Saikia has worked on alkali and MOR basalts found in the Ophiolites of Naga Hills in Northeastern India. Prof.

Devesh K Sinha was involved in detailed biostratigraphy and biochronology of the Indo-Pacific region. Prof. Pankaj Srivastava established clay mineralogy of near-equatorial Paleocene–Eocene Thermal Maximum (PETM) in Barmer Basin. Dr. Pramod Kumar documented fluvial architectural elements from the Bhuj Formation, Kutch. Prof. Partha Chakraborty proposed a rimmed shelf platform for the Narji Limestone Formation, Kurnool Group. Mr. Rahul Dixit Completed the UGC - Sponsored Faculty Induction Programme.

Publications

Ahmad, M., Paul, A. Q., & Saikia, A. (2024). Pillow Morphology of Bathani Volcano-sedimentary Sequence of Eastern Indian Shield: Inferences on the Geotectonic and Geo-Environments. *Geological Society of India*, 100(2), 218-232.

Ali, S., Shekhar, S., Kumar, R., Brindha, K., & Li, P. (2023). Genesis and mobilization of fluoride in groundwater of India: Statistical evaluation, health impacts, and potential remedies. *Journal of Hazardous Materials Advances*, 11, 100352.

Basumatary, P., Saikia, A., Prakash, T., & Gogoi, B. (2023). Geochemical constraints on the petrogenesis of mafic rocks (metadolerites) from the Proterozoic Shillong Basin, Northeast India: implications for growth of the Greater Indian Landmass. *Geological Magazine*, 160(6), 1114-1130.

Borah, D., Chauhan, H., Saikia, A., & Gogoi, B. (2024). Petrogenesis of high-Mg andesites from the Proterozoic Shillong Basin, Northeast India: evidence for continuation of the Central Indian Tectonic Zone to the Assam-Meghalaya Gneissic Complex and its implications for the Columbia supercontinent reconstruction. *International Geology Review*, 66(3), 734-754.

Chakrabarty, A., Mukherjee, S., Karmakar, S., Sanyal, S., & Sengupta, P. (2023). Petrogenesis and in situ U-Pb zircon dates of a suite of granitoid in the northern part of the Central Indian tectonic Zone: Implications for prolonged arc magmatism during the formation of the Columbia supercontinent. *Precambrian Research*, 387, 106990.

Chakraborty, P. P., Barkat, R., & Sharma, A. (2023). Carbonate platform architecture and carbon isotope stratigraphy from the neoproterozoic Narji limestone Formation, Kurnool Group, India: Decoding clues of relative sea level fluctuations. *Marine and Petroleum Geology*, 149, 106086.

Chakraborty, P. P., Sharma, R., Das, K., Sharma, A., & Saha, S. (2023). U-Pb zircon geochronology of volcanoclastics and encasing sandstones from the Chhoti Khatu section: Bearing on the Neoproterozoic Marwar Supergroup stratigraphy and its global implications. *Geosystems and Geoenvironment*, 2(1), 100111.

Chatterjee, S., Karmakar, S., Mukherjee, S., Sanyal, S., & Sengupta, P. (2023). Origin of clinopyroxene-ilmenite symplectites in mafic granulites from eastern parts of the Chotanagpur granite gneissic complex, East Indian shield. *American Mineralogist*, 108(12), 2308-2322.

Choudhury, S. R., Dey, A., Mukherjee, S., Sengupta, S., Sanyal, S., Karmakar, S., & Sengupta, P. (2023). Formation of aluminous clinopyroxene-ilmenite-spinel symplectic assemblage in a regionally metamorphosed calc-silicate granulite from the Chotanagpur Granite Gneiss Complex, East Indian shield. *Lithos*, 442, 107058.

- Dey, A., Roy Choudhury, S., & Sengupta, P. (2024). Competing Roles of Evolving P–T Conditions, Equilibration Volume and Chemical Potential Landscape in the Formation of Corona Texture: a Case Study from the Southern Granulite Terrane, India. *Journal of Petrology*, 65(1), egad083.
- Dhiman, H., & Prasad, G. V. (2024). An overview of recent research on the fossil biota of the Deccan Volcanic Province, India. *Proceedings of the Indian National Science Academy*, 1-15.
- Dhiman, H., Verma, V., Singh, L. R., Miglani, V., Jha, D. K., Sanyal, P., ... & Prasad, G. V. (2023). New Late Cretaceous titanosaur sauropod dinosaur egg clutches from lower Narmada valley, India: Palaeobiology and taphonomy. *PLoS One*, 18(1), e0278242.
- Divyadarshini, A., Rajendran, C. P., John, B., Singh, V., Yadava, M. G., Sarkar, A., & Parida, S. (2023). Evidence of blind thrusting in the frontal part of the Central Himalaya and its significance for rupture evolution and size of a medieval earthquake. *Tectonophysics*, 854, 229798.
- Jain, A. K., Mukul, M., Pant, N. C., Mukherjee, P. K., Singh, P., Singh, T., ... & Dixit, R. (2024). Tectonics of the Northwestern, Sikkim and Eastern Himalaya. *Proceedings of the Indian National Science Academy*, 1-15.
- Kaushik, S., Sundriyal, Y., Chauhan, N., Rana, N., & Sharma, S. (2023). Reconstructing the pattern of late Quaternary climate through sediment-landform assemblages in the Dhauli Ganga valley (upper Ganga catchment), India. *Geomorphology*, 432, 108708.
- Kshetrimayum, D. S., Parmar, V., Lourembam, R. S., & Prasad, G. V. (2022). Taxonomy, biostratigraphy and paleoecology of non-marine ostracod fauna of the Maastrichtian intertrappean beds of the lower Narmada Basin, Malwa Plateau, India. *Palaeoworld*, 33, 162-187.
- Kumar, R., Hameed, A., & Srivastava, P. (2023). Clay mineralogical evidence of near-equatorial Palaeocene–Eocene Thermal Maximum in Barmer Basin, India. *Clay Minerals*, 58(2), 121-142.
- Kumar, R., Hameed, A., Tiwari, P., Kumar, N., & Srivastava, P. (2024). Major, trace and rare earth element geochemistry of Archaean carbonate sediments of Tanwan group rocks of the Bhilwara supergroup, India: implications for seawater geochemistry and depositional environment. *Carbonates and Evaporites*, 39(2), 14.
- Kumar, V., Sundriyal, Y., Chauhan, N., Puniya, M. K., Kaushik, S., Kumar, S., ... & Rana, N. (2023). Ascertaining Potential Causes of Hillslope Failure Associated to Human Settlement: A Case Study from Alaknanda Valley, Uttarakhand, NW Himalaya, India. *Journal of the Geological Society of India*, 99(8), 1141-1148.
- Okazaki, J. Y., Das, K., Chattopadhyay, A., Ando, J. I., & Sarkar, A. (2024). U–Pb geochronology and metamorphic history of gneissic rocks from Sarwar-Junia Fault Zone, Rajasthan, NW India: Implications for the tectonothermal evolution of the Aravalli-Delhi Mobile Belt. *Geological Journal*, 59(1), 169-200.
- Prakash, T., Saikia, A., Basumatary, P., & Gogoi, B. (2023). Petrogenesis of the Borjuri diorite pluton in the Mikir Massif of Northeast India: implications for post-collisional intermediate magmatism during the Pan-African orogeny. *Acta Geochimica*, 42(4), 747-764.
- Roy Choudhury, S., Dey, A., Mukherjee, S., Sanyal, S., Karmakar, S., & Sengupta, P. (2023). On the factors controlling the incorporation of aluminium within titanites: a case study from medium pressure calc-silicate granulites in parts of the East Indian shield. *Mineralogy and Petrology*, 117(4), 729-744.

Saikia, A., & Kiso, E. (2024). Heterogeneous mantle sources for basaltic rocks of the Nagaland–Manipur Hill Ophiolite (NMHO) complex of North-Eastern India: inferences from source melting models. *International Journal of Earth Sciences*, 113(3), 757-777.

Sarkar, A., Kumar, S., & Shekhar, S. (2024). Impact assessment of long-term high-volume abstraction of groundwater from Palla floodplain aquifers of Delhi, India. *Groundwater for Sustainable Development*, 24, 101053.

Sarkar, A., Shankar, V., Singh, V., Stewart, I., Shekhar, S., & Sinha, V. (2023). Defining the ‘urban critical zone’ for global sustainable development. *CURRENT SCIENCE*, 125(8), 824.

Singh, N. L., Akhtar, S., Singh, A. K., Singh, B. P., Saikia, A., & Jeelani, S. H. (2023). Petrogenesis and tectonic implications of the Late Cretaceous to Paleogene calc-alkaline volcanic rocks, Ladakh Himalaya. *Journal of Asian Earth Sciences*, 253, 105700.

Sundriyal, Y., Kumar, S., Chauhan, N., Kaushik, S., Kumar, V., Rana, N., & Wasson, R. (2024). An integrated approach of machine learning and remote sensing for evaluating landslide hazards and risk hotspots, NW Himalaya. *Remote Sensing Applications: Society and Environment*, 33, 101140.

Sundriyal, Y., Kumar, V., Khan, F., Puniya, M. K., Kaushik, S., Chauhan, N., ... & Rana, N. (2023). Impact of potential flood on riverbanks in extreme hydro-climatic events, NW Himalaya. *Bulletin of Engineering Geology and the Environment*, 82(6), 196.

Srivastava, P., Pal, D. K. (2024). Micromorphology of Soils and Paleosols of India. India, Springer, 978-981-99-6559-5, 99.

Capello, M.A., Caslin, E., Stewart, I.S., Cox, D.M., Shaughnessy, A.C., Atekwana, E.A., Handley, H.K., Bakamjian, T., Wouters, L., Winsten, M.S., Singh, V., and Mhopjeni, K. (2023). Geoscience in Action: Advancing Sustainable Development, USA, American Geophysical Union, 978-92-3-100580-0, 87.

Research Projects

Dr. Anindita Dey - DST, SERB startup research grant, “Constraining the pressure-temperature-fluid composition and timing of deep crustal metasomatism, preserved in the Southern Granulite Terrane, India”, December 2021-2024, Rs. 25 Lacs.

Prof. Anupam Chattopadhyay - IOE, DU, Deformation microstructures of serpentinized ultramafic rocks from the Rakhabdev Lineament Zone, Rajasthan: understanding the tectonics of an exhumed mantle wedge (?) in a Proterozoic paleo-subduction setting’. Rs. 4.0 Lacs.

Prof. Ashutosh K Singh and Prof. Devesh K Sinha - MOES, Late Neogene – Quaternary multi-proxy records of EI Nino variability: Implication on tropical Indian Ocean paleoclimate and paleoceanography” MoES Paleoclimate Change Programme, Government of India (PI)- , Rs. 38 Lacs.

Prof. Ashutosh K Singh - RUSA, Investigating the role of Inter-oceanic exchange on Indian Ocean Surface heat redistribution and its impact on Indian Monsoon during Quaternary: A multiproxy approach. Rs. 48 Lacs.

Dr. Ashima Saikia - IoE, DU, Petrogenetic evolution of Jasra Ultramafic – mafic – alkaline complex, Mikir Hill, Assam, Northeastern India, Rs. 5.0 Lacs.

Dr. Ashima Saikia - DST-SERB, Understanding the magma dynamics in the generation of mafic – ultramafic complex of Gaya and Aurangabad area of Chotanagpur Granite Gneiss Complex, Eastern India: Implication for the amalgamation and fragmentation of the Greater Indian Landmass, Rs. 43 Lacs.

Dr. Manika Gupta - IoE, DU, Estimation of high-resolution soil parameters and hydrological fluxes through Earth observation dataset assimilation, Rs. 5.0 Lacs.

Prof. Shashank Shekhar - Ministry of Earth Science (MOES), Govt. of India., Development of a predictive geomorphic model as a tool for sustainable river management., Rs. 25.36 Lacs.

Dr. Saqib Abdullah - DST-SERB, The petrological, geochemical, and textural characteristics of Nagaland Manipur ophiolite North-East India: Implication for the Neo-Tethyan tectonics and evolution of Indo-Myanmar Range, Rs. 30.25 Lacs.

Dr. Subham Mukherjee - Department of Science and Technology (DST), India, Zircon and monazite as proxies for the crustal evolution: applications to parts of the Proterozoic mobile belts of India, Rs. 35 Lacs.

Dr. Rao Singh Priyanka - DST-SERB, Characterizing the geomorphic expression of active faults along the frontal thrust, Northeast Himalaya., Rs. 47.99 Lacs.

Dr. Rao Singh Priyanka - DST-SERB, Estimation of long- term interseismic deformation of the eastern Himalaya using InSAR measurement: Insight on Seismic potential, Rs. 16.85 Lacs.

Prof. Vimal Singh - MoES, Pranmati Basin, Himalaya Critical Zone Observatory, Rs. 2.42 Crores.

Seminar/Conference Presentations (National / International)

Dr. Anindita Dey

Anindita Dey, The role of equilibration volume in the formation of complex microstructures: A case study on the origin of corundum-sapphirine-cordierite double corona around aluminosilicates in high grade metamorphic rocks. SERB-DFG Week of Young Researcher, New Delhi-Dehradun. DST. 2023-11-27.

Ashima Saikia, Origin of basaltic rocks of Nagaland-Manipur Hill Ophiolite (NMHO) complex in North-Eastern India: Inferences from mantle melting models. EGU-2023. EGU. 2023-04-24.

Dr. Manika Gupta

Manika Gupta, Understanding the importance and development of ultra-high resolution soil moisture datasets for agricultural systems. INAGMET-24, BHU. BHU. 2024-02-10.

Manika Gupta, Environmental Sustainability: New Paradigms & Developments. Development and comparison of ultra-high-resolution soil moisture products based on SMAP. Dubai. 2023-11-26.

Manika Gupta, River water quality estimation using CNN and Sentinel data. CSIRO, Canberra, Australia. CSIRO, Canberra, Australia. 2023-08-17.

Dr. Pramod Kumar

Pramod Kumar, Transition from estuarine to fluvial environment: Record from the middle part of Bhuj Formation, Kutch Mainland, India. 39th Convention of Indian Association of Sedimentologists and International conference on “Voyage of sedimentology from the mountains to the Oceans: An innovative trajectory”. Annamalai University. 2023-12-06.

Pramod Kumar, Architectural element analysis of the upper part of the Bhuj Formation, Gadhsisa, western Kutch, India 39th Convention of Indian Association of Sedimentologists and International conference on “Voyage of sedimentology from the mountains to the Oceans: An innovative trajectory”. Annamalai University. 2023-12-06.

Pramod Kumar, Architectural element analysis of the upper part of the Bhuj Formation, Gadhsisa, western Kutch, India 39th Convention of Indian Association of Sedimentologists and International conference on “Voyage of sedimentology from the mountains to the Oceans: An innovative trajectory”. Annamalai University. 2023-12-07.

Dr. Partha Pratim Chakraborty

Partha Pratim Chakraborty, Neoproterozoic carbonate platform architecture and carbon isotope stratigraphy: Decoding clues of relative sea level fluctuations. Delhi University- Hiroshima University joint workshop. Delhi university. 2023-02-27.

Dr. Shashank Shekhar

Shashank Shekhar, Water Resources of NCR Delhi-Future Options”, during “Jal-Amrit-23- A National Seminar on Water Quality and availability in Delhi NCR”. Water Resources of NCR Delhi-Future Options”, during “Jal-Amrit-23. Bharat Seva Prathisthan at DAV Centenary College. 2023-06-24.

Shashank Shekhar, “Numerical Modelling” at Workshop on. “Mathematical Modelling of Groundwater System”. Centre for Advance Water Technology & Management, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India. 2023-08-05.

Shashank Shekhar, Urban Groundwater Sustainability, Recharge and Quality Challenges. Groundwater Management for Climate Resilient River Cities. School of Water and Waste, Centre for Science and Environment (CSE), New Delhi, with the support of the National Mission for Clean Ganga (NMCG). 2023-10-16.

Shashank Shekhar, Guidelines for obtaining NOC from CGWA for Mining Projects. Workshop on CGWA-NOC For Mining Projects & Role of Carbon Capture and Sequestration in India’s Energy Future”. CMPDI Regional Institute, Bilaspur, Chhattisgarh. 2023-08-11.

Dr. Vimal Singh

Vimal Singh, Critical Zone Science – Advancing Multi-Disciplinary Research”. 5th Workshop on Luminescence Dating and its application. Physical Research Laboratory, Ahmedabad. 2024-02-21.

National/International MoUs Signed

Niigata University and Hiroshima University.

Other Inter-Institutional Collaboration: 10

Placement Details: 10

Extension and Outreach Activities

Dr. Anindita Dey

Acted as reviewer of research papers for journals like Journal of Petrology, Environmental earth Science, Mineralogy petrology, Geosphere etc.

Prof. Anupam Chattopadhyay

National mentor for IASc-INSA-NASI summer research fellowship (every year since 2011).

Dr. Ashima Saikia

Member organising committee in Earth day -2023, Theme -Invest in our Planet organised by the Geological society of India, Indian National Science Academy and Ministry of Earth Science held on 22nd April, 2023.

Organising secretary Sensitization programme on " Disaster and Climate change" at Hans Raj College on 16th May 2023.

Prof. Ashutosh K Singh

Convener, Paleontological Society of India, Student Chapter, NORTH Zone, Delhi University. More than 150 students are members from the Hans raj College, Ram Lal Anand college and Department of Geology University of Delhi.

Faculty from the Department side to interact with students from different departments and college to discuss with them about geological museum and Deep-sea core lab at department of Geology, University of Delhi.

Prof Devesh K Sinha

Invited talk at International Fossil Day, Pune University

Invited Talk at Inter-University Accelerator Centre, New Delhi

Invited Talk at Kumaun University, Nainital

Dr. Pramod Kumar

Faculty Advisor of the American Association of Petroleum Geologists (AAPG) Student Chapter, Delhi University started in 2013—more than 118 student members from the Department of Geology.

Arranged visits to the Department Geological Museum for college students, the University of Delhi, and students of other universities.

Prof. Shashank Shekhar

Organizing secretary, Sensitization Programme on "Disaster and Climate Change" at Hans Raj College on 16th May 2023, jointly organized by Indian Universities and Institutions Network (IUINDRR-NIDM), National Institute of Disaster Management Ministry of Home Affairs, Govt. of India and University of Delhi.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 07

Other Significant Information

Manika Gupta: Visiting Scientist at University of Sunshine Coast, Brisbane, Australia from 9th July 2023 - 24th August 2023.

Manika Gupta: Resource person at R workshop at the University of Sunshine Coast on Hyperspectral data analysis, July 10-14, 2023.

Mr Rahul Dixit participated in "NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME" under the Malaviya Mission Teacher Training Programme, UGC organized by the MMTTC, Kumaun University, Nainital, Uttarakhand December 14-23, 2023).

PHYSICS & ASTROPHYSICS

Major Activities and Achievements

The Department of Physics and Astrophysics has maintained its position as the topmost QS ranked university physics department in India. It is also one of the largest physics departments in the country, with nearly 780 MSc students and over 180 PhD students, in addition to the presently available 53 regular faculty members. It has sustained its high quality in research, which is evident from over 200 research publications (including books/chapters and conference proceedings) by only its regular faculty members, apart from those by its students, in international refereed journals during the year. Its faculty received several national and international grants and participated in several collaborative projects across the globe. It had also hosted various eminent researchers who gave inspiring lectures to motivate young students. The department's Master's curriculum provides a wide choice of electives, including inter-disciplinary subjects, to its students. The department, under a vibrant Ph.D. program, has offered a plethora of cutting-edge research topics as well, in recent times, making the above strategies much relevant for the Ph.D. course-work. Furthermore, an exclusive departmental portal <http://physics.du.ac.in>, displaying regular updates on its academic and other activities, has successfully run online during the year.

Honours/Distinctions

Faculty

Prof. Brajesh Chandra Choudhary - Spokesperson, Indian Institutions: Fermilab Collaboration in Neutrino Physics - continuing in 2023-24, till 2026.

Prof. Patrick Das Gupta - President, Indian association of General Relativity and Gravitation (IAGRG) - continuing from 2020.

Prof. Annapoorni Subramaniam - Member, Academic council, Jawaharlal Nehru University, Pondicherry University and Amity Institute of Nanotechnology - continuing in 2023-24.

Prof. Amita Chandra - Research Ambassador, DAAD - continuing in 2022-23.

Prof. Shyama Rath - Coordinator, Internal Quality Assurance Cell (IQAC), University of Delhi - continuing in 2023-24.

Dr. Sourav Sur - Visiting Associate, Inter-University Centre for Astronomy and Astrophysics (IUCAA) -- continuing in 2023-24, till 2025.

Publications

Research Articles

Scopus

Acero, M. A., Adamson, P., Agam, G., Aliaga, L., Alion, T., Allakhverdian, V., ... & Principato, C. (2023). Measurement of $\nu\mu$ charged-current inclusive π^0 production in the NOvA near detector. *Physical Review D*, 107(11), 112008.

Ahmad, T., Jindal, K., Tomar, M., & Jha, P. K. (2023). Effect of codoping of rare earth elements and Cr on multiferroic, optical and photocatalytic properties of BiFeO₃. *Materials Today Communications*, 37, 107516.

Ahmed, I., Dastider, S. G., Biswas, R., Roy, A., Mondal, K., & Haldar, K. K. (2024). Co₃O₄/WO₃/C Nanorods with Porous Structures as High-Performance Electrocatalysts for Water Splitting. *ACS Applied Nano Materials*, 7(4), 4035-4050.

Ahmed, I., Dastider, S. G., Roy, A., Mondal, K., & Haldar, K. K. (2024). Nitrogen Doping in NiS/Ni₃S₄ Nanowire-Based Electrocatalysts for Promoting the Second-Order Hydrogen Evolution Reaction. *ACS Applied Nano Materials*, 7(1), 661-671.

Anjana, & Chandra, A. (2024). P (VDF-TrFE)-based polymer nanocomposites comprising of reduced graphene oxide decorated with CoFe₂O₄@ MCM 41 for efficient microwave absorption in X-band. *Journal of Applied Polymer Science*, 141(7), e54954.

Antoniadis, J., Arumugam, P., Arumugam, S., Babak, S., Bagchi, M., Nielsen, A. S. B., ... & Wu, Z. (2023). The second data release from the European Pulsar Timing Array-III. Search for gravitational wave signals. *Astronomy & Astrophysics*, 678, A50.

Antoniadis, J., Arumugam, P., Arumugam, S., Babak, S., Bagchi, M., Nielsen, A. S. B., ... & Wu, Z. (2023). The second data release from the European Pulsar Timing Array-II. Customised pulsar noise models for spatially correlated gravitational waves. *Astronomy & Astrophysics*, 678, A49.

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Ashok, S. K., John, R. R., Layon, T. J., Mahato, S., & Raman, M. (2023). Effective gravitational couplings of Kaluza-Klein gauge theories. *Journal of High Energy Physics*, 2023(9), 1-25.

Bagbi, Y., & Solanki, P. R. (2023). Fabrication of Mesoporous Silica Nanoparticle-Decorated Graphene Oxide Sheets for the Effective Removal of Lead (Pb²⁺) from Water. *ACS Omega*, 9(1), 304-316.

Bai, B., & Sahare, P. D. (2023). Effect of redox reactions on the thermoluminescence characteristics of Cu-doped NaLi₂PO₄ phosphors. *RSC Advances*, 13(29), 20298-20313.

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Research Projects

Prof. B. C. Choudhary - Indian participation in the CMS experiment at CERN: maintenance, operation and upgradation. of Rs. 346.00 lacs (DST).

Prof. Kirti Ranjan, Prof. M. Naimuddin - Indian participation in the CMS experiment at CERN: Maintenance, operation and upgradation. of Rs. 1505.00 lacs.

Prof. B.C. Choudhary, Prof. Debajyoti Choudhury, and Prof. Samit K. Mandal - Indian Institutions – Fermilab collaboration in neutrino physics. of Rs. 280.00 lacs.

Prof. D. N. Gupta - Fabrication of anti-microbial textile clothing with cold plasma PVD technology. of Rs. 36.00 lacs (DST).

Exploring quantum electrodynamics plasma at the new laser intensity frontier. of Rs. 30.00 lacs (SERB-DST-CRG).

Prof. S. Annapoorni -The role of spacer layer in exchange-coupled bi-phased magnetic multilayers and nano-composites. of Rs. 20.81 lacs (SERB-DST).

Prof. Shyama Rath - Generation and assessment of optically addressable point defects in silicon carbide for new quantum technologies. of Rs. 42.46 lacs (SERB-DST).

Prof. Sevi Murugavel - Singular structural and charge transport properties of highly defective polyanionic solids. of Rs. 1.35 lacs (UGC-DAE CSR).

Dr. Sumalay Roy - Magneto-topological insulator interface: Synthesis and structure-property correlation studies. of Rs. 1.35 lacs (UGC-DAE CSR and RRCAT, Indore).

Prof. S. A. Hashmi - Development of eco-friendly sodium-ion storage devices with sustainable carbon electrodes and bio-degradable polymer-based electrolytes. of Rs. 27.00 lacs (IoE, University of Delhi).

Dr. Suman Chowdhury - Exploration of thermochromism in 2D transition-metal oxides. of Rs. 3.50 lacs (IoE, University of Delhi).

Dr. Utkarsh Mishra - Finding quantum control methods for high precision magnetic field sensing in quantum many-body systems. of Rs. 4.00 lacs (IoE, University of Delhi).

Dr. Krishnakanta Mondal - Unravel the role of d-orbital for CO₂ mitigation. of Rs. 4.00 lacs (IoE, University of Delhi).

Dr. Archana Mishra - Quantum computing with Yu-Shiba-Rusinov states in superconductors. of Rs. 4.00 lacs (IoE, University of Delhi).

Dr. Yana Bagbi - Design of low-cost magnetic bamboo activated carbon impregnated cellulose filtration cartilage for the treatment of metal ions contaminated water. of Rs. 13.00 lacs (Jal Jeevan Mission).

Dr. Sourav Sur - Unified dark energy and dark matter: A modified gravity approach. of Rs. 4.00 lacs (IoE, University of Delhi).

Dr. Rakesh Kumar Mishra - Role of metallic ions to fabricate DNA templated nanocluster and density distribution effects on the modulation of Nucleic acid (DNA, RNA) structure. of Rs. 4.00 lacs (IoE, University of Delhi).

Dr. Amol Singh - Comprehensive doping investigation of perovskite oxides with X-ray spectroscopy technique. (August 2023 to February 2024) of Rs. 5.00 lacs (IoE, University of Delhi).

Unraveling electronic structures of quantum materials: A synchrotron spectroscopy study via resonant inelastic x-ray scattering (RIXS) of Rs. 35.88 lacs (SERB-DST).

Seminars Organized

Dr. Hersh Singh, FermiLab, USA, L Fermionic anomalies and topological phases on the lattice: Ginsparg Wilson relation and its generalizations, March 11, 2024.

Prof. Varun Sheel, Senior Professor & Head, Planetary Science Division, Physical Research Laboratory, Ahmedabad, Planetary science and exploration - An Indian perspective, March 2, 2024.

Dr. Apratim Chatterji, IISER Pune, IISER Pune, Entropy induced organization: polymer topology drives bacterial chromosome organization within the living cell, February 29, 2024.

Prof. Susanta Hui, Beckman Research Institute, Department of Radiation Oncology, City of Hope National Medical Center Duarte, Los Angeles, USA, Rediscovering the role of radiation in improving hematopoietic stem cell transplant outcomes for hematological diseases, February 26, 2024.

Dr. Swati Mohan, NASA's Jet Propulsion Laboratory, USA, Mars exploration, a journey to success, February 26, 2024.

Prof. Chandan K. Mishra, Department of Physics, IIT Gandhinagar, Exploring the role of impurities in colloidal vapor deposition: Insights from nucleation and growth kinetics, February 20, 2024.

Dr. Manoj Kumar, Simons Centre for the Study of Living Machines, National Centre for Biological Sciences - TIFR, Bengaluru, Soft and active matter to understand and mimic living systems, February 6, 2024.

Ms. Monica Bello, CERN Switzerland, Dialogue across art & physics, February 2, 2024.

Dr. Sunil Malik, University of Potsdam & Deutsches Elektronen- Synchrotron, DESY, Germany, Diagnostic for 3D magnetic field and its turbulent characteristics in ISM and extended objects, January 17, 2024.

Dr. Anish Ghoshal, University of Warsaw, Poland, “Dynamical Generation of Dark Matter, Electroweak Scale and Planck Scale”, May 12, 2023.

Dr. Ranjani Seshadri, Ben-Gurion University of the Negev, Israel, “Engineering Floquet Topological Phases using Periodic Driving”, November 8, 2023

Prof. Yasuhiro Fukuma, Department of Physics and Information Technology Kyushu Institute of Technology, Japan, Spin current and its device application, October 6, 2023.

Dr. Amit Adhikari, Post-Doc, University of Warsaw, Pasteura 5, Warsaw, Poland, Overview of Higgs boson searches at LHC, July 19, 2023.

Dr. Satya K. Kushwaha, Associate Director of PARADIM-Bulk Materials Discovery facility, Department of Physics & Astronomy, Johns Hopkins University, 3701 San Martin Dr, Baltimore, MD 21218, Development of Topological materials and a Fermi liquid state in a topological Kondo Insulator, June 19, 2023.

Dr. Dibyakrupa Sahoo, Institute of Theoretical Physics Faculty of Physics University of Warsaw, Poland, Exploring new avenues to distinguish between Dirac and Majorana neutrinos, May 31, 2023.

Prof. M. Saha Sarkar, Academy of Science, Technology and Engineering for the Masses (ASTEM), Kolkata, Nuclear Science and Modern Society, November 6, 2023.

Seminar/Conference Presentations (National / International)

International

Sourav Sur-A unified cosmological dark sector from a Bose-Einstein condensate. McDonald Research Partnership-Building Workshop: New insights into particle physics from quantum information and gravitational waves (June 13, 2023).

Suman Chowdhury- Introduction to density functional theory and its application in the field of thermal transport and thermoelectricity, International workshop on materials modelling 2023 (IWMM-2023), DonBosco University, Tapesia Gardens, Assam, India (November 4, 2023).

Utkarsh Mishra-Localization driven quantum sensing, International conference on quantum technologies, MAHE, UDUPI Karnataka (February 2, 2024).

Vikram Rathee-Shear thickening suspensions: Exploring ideal particulate, International Conference on Materials for Energy & Sustainable Development, MESD 2023, Energy & Sustainable Development (October 29, 2023).

National

Archana Mishra -Controlling Majorana hybridization in magnetic chain-superconductor systems, Quantum Condensed Matter-2023, NISER, Bhubaneswar, Odisha (November 27, 2023).

Govind Dayal Singh-Plasmonic nanocavities for molecular vibrational spectroscopy: From weak to strong coupling regime, Recent advances in optics and metamaterials (WROM), IIIT Noida (February 23, 2024).

Krishnakanta Mondal- Global optimization using basin hopping method, multiscale modeling of materials in carbon related nanostructures, Central University of Haryana, Mahendergarh, Haryana (May 9, 2023).

Sourav Sur-

Invited talk - A unified cosmological dark sector from a Bose-Einstein Condensate, Invited talk, Department of Physics and Astrophysics University of Delhi (December 5, 2023).

Invited talk - Cosmological aspects of Mimetic-Metric-Torsion Gravity, Invited talk, Department of Mathematics, Jadavpur University, Kolkata July 4, 2023).

Utkarsh Mishra-

Driving Enhanced Quantum Sensing in Partially Accessible Many-Body System, Quantum Information Processing and Applications (QIPA-2023), HRI, Prayagraj (Allahabad), 2023-12-04.

Many-Body Quantum Sensors, SPS JNU March Meeting, School of Physical Sciences JNU New Delhi 2024-03-14.

National/International MoUs Signed

The University has just signed an MoU with the HSE University of Russia (primarily St. Petersburg campus).

Extension and Outreach Activities

The Department organized the Memorial Lecture on "Life and Work of Prof. A.N. Mitra". Speaker: Prof. N. Panchapakesan, Retired-Professor, Department of Physics and Astrophysics, University of Delhi at DSKL Hall, Department of Physics and Astrophysics, University of Delhi (April 17, 2023).

The Department has organized “14th Dr. B.N. Singh Memorial Lecture”. Title of the lecture: “Quantum Metrology: Interdisciplinary opportunities”. Speaker: Prof. Venu Gopal Achanta, Director, National Physical Laboratory, New Delhi at DSKL Hall, Department of Physics and Astrophysics, University of Delhi (March 12, 2024).

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 25

Faculty Strength

Professor: 33

Associate Professor: 3

Assistant Professor: 17

Social Outreach

The Physics Society of Department of Physics and Astrophysics, University of Delhi celebrated the National Science Day 2024 by organizing the following events on February 27-28, 2024: (1) Talks by eminent physicists Prof. T.R Sheshdari and Prof. Susmita Saha. (2) A Quiz, open to all registered participants. (3) Poster presentations by PG/Ph.D. students. (4) Visit to the sky observatory. (5) A science circus.

Other Significant Information

Prof. Debajyoti Choudhury - Member, PAC of Department of Science and Technology (DST), Govt. of India, for High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics - continuing in 2023-2024.

Member, Expert Committee of Department of Science and Technology (DST), Govt. of India, for SERC School in THEP - continuing in 2023-2024.

Member, Selection Committee for INSPIRE Faculty Awards - continuing in 2023-2024.

Prof. P. Das Gupta - Member, Departmental Research Committee, of the Department of Physics, Indira Gandhi National Tribal University, Amarkantak, Chhattishgarh -continuing from 2020.

Prof. Amita Chandra - Member, Board of Studies, School of Vocational Studies and Applied Sciences, Gautam Buddha University - continuing in 2023-2024.

Prof. Nivedita Deo - Member, Complex Systems Society (CCS), Inc - continuing in 2023-2024.

Prof. Awadhesh Prasad - Member, PAC of Department of Science and Technology (DST), Govt. of India, for High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics - continuing in 2023-2024.

Prof. S. Rath - Member, PAC of Department of Science and Technology (DST), Govt. of India, for High Energy Physics, Nuclear Physics, Astrophysics, Plasma Physics and Nonlinear Dynamics - continuing in 2023-2024.

Prof. Samit Kumar Mandal - Member, Special committee, Special Centre for Nanoscience (SCNS), Jawaharlal Nehru University - continuing in 2023-2024.

Member, Selection committees for JRF/Research Associate/Scientist, Inter-University Accelerator Center - continuing in 2023-2024.

Member, Evaluation Committee for JRF to SRF, Inter-University Accelerator Center - continuing in 2023-2024.

Dr. Sourav Sur - Member, Indian association of General Relativity and Gravitation (IAGRG) - continuing in 2023-24.

ZOOLOGY

Major Activities and Achievements

Department of Zoology is one of the premier research-intensive Departments in the country. Research is conducted in diverse areas ranging from microbes to humans. Faculty members in the last year have published 34 research papers in peer-reviewed journals of high impact. They have also presented their findings in various National and International conferences. Many of them have received substantial funding from various funding agencies both from National and International. The Department of Zoology has been recognized for DST-FIST, UGC-SAP/CAS schemes. The department imparts M.Sc. teaching and training in advanced areas of Zoology. Last year in the session 2022-23, 118 candidates obtained Master's degree in Zoology. In addition, 15 students awarded Ph.D. degree.

Honours/Distinctions

Faculty

Prof. R. K. Negi - has been conferred an Honorary Fellowship (FHFSTC) Award: Himalayan Forum for Science and Technology Communication by Shoolini University, Solan (HP), India in 2023.

Publications

Bharti, M., Nagar, S., & Negi, R. K. (2023). Riverine pollution influences the intraspecific variation in the gut microbiome of an invasive fish, *Cyprinus carpio* (Linn., 1758). 3 *Biotech*, 13(10), 320.

Dey, S. K., Kumar, S., Rani, D., Maurya, S. K., Banerjee, P., Verma, M., & Senapati, S. (2023). Implications of vitamin D deficiency in systemic inflammation and cardiovascular health. *Critical reviews in food science and nutrition*, 1-18.

Dotania, K., Tripathy, M., & Rai, U. (2023). Nesfatin-1 in a reptile: its role and hormonal regulation in wall lizard testis. *General and Comparative Endocrinology*, 341, 114337.

Dotania, K., Tripathy, M., & Rai, U. (2024). Ovarian nesfatin-1 in *Hemidactylus flaviviridis*: Reproductive phase-dependent expression, role and hormonal regulation. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology*, 288, 111556.

- Gehlot, B., Chandra, S., Joshi, R., Arya, M., & Chakrabarti, R. (2024). Temporal Variations in Plankton Communities and Environmental Factors in the Shipra, a Central Himalayan Tributary of the Kosi River in Uttarakhand, India. *Environmental Monitoring and Assessment*, 196(3), 326.
- Jain, S., & Shakarad, M. N. (2024). Adoption and foster parenting: an evolutionary enigma?. *Ethology Ecology & Evolution*, 36(1), 1-20.
- Jamwal, R., Devi, P. P., Rani, V., Rawat, N., Daimei, G., Saurav, G. K., ... & Rajagopal, R. (2024). Structural and Functional Analysis of Groundnut bud necrosis virus (GBNV) Using Computational and Biochemical Approaches. *Molecular Biotechnology*, 1-14.
- Khan, M. A., Singh, D., Jameel, M., Maurya, S. K., Singh, S., Akhtar, K., & Siddique, H. R. (2023). Lupeol, an androgen receptor inhibitor, enhances the chemosensitivity of prostate cancer stem cells to antiandrogen enzalutamide-based therapy. *Toxicology and Applied Pharmacology*, 478, 116699.
- Kumar, A., Lal, K., Kumar, V., Murtaza, M., Jaglan, S., Paul, A. K., ... & Kumari, K. (2023). Synthesis, antimicrobial, antibiofilm and computational studies of isatin-semicarbazone tethered 1, 2, 3-triazoles. *Bioorganic Chemistry*, 133, 106388.
- Kumar, N., Sharma, J., Mittal, P., & Chakrabarti, R. (2023). Effect of leaves and seeds of *Achyranthes aspera* as feed supplements on the immunological and stress parameters and related gene expressions of Asian catfish (*Clarias batrachus*). *Veterinary Research Communications*, 47(1), 99-109.
- Kumari, K., Singh, M. B., Tomar, N., Kumar, A., Kumar, V., Dabodhia, K. L., & Singh, P. (2023). Adsorption of pesticides using graphene oxide through computational and experimental approach. *Journal of Molecular Structure*, 1291, 136043.
- Modeel, S., Negi, R. K., Sharma, M., Dolkar, P., Yadav, S., Siwach, S., ... & Negi, T. (2024). A comprehensive DNA barcoding of Indian freshwater fishes of the Indus River system, Beas. *Scientific Reports*, 14(1), 2763.
- Nagar, S., Bharti, M., & Negi, R. K. (2023). Genome-resolved metagenomics revealed metal-resistance, geochemical cycles in a Himalayan hot spring. *Applied Microbiology and Biotechnology*, 107(10), 3273-3289.
- Namgial, T., Singh, A. K., Singh, N. P., Francis, A., Chattopadhyay, D., Voloudakis, A., & Chakraborty, S. (2023). Differential expression of genes during recovery of *Nicotiana tabacum* from tomato leaf curl Gujarat virus infection. *Planta*, 258(2), 37.
- Raman, A. P. S., Pal, S., Singh, P., Kumar, A., Jain, P., & Kumari, K. (2023). Investigate the designing of eutectic mixture using DFT computation and evaluate their biological potency using molecular docking. *Journal of Molecular Liquids*, 381, 121723.
- Rawat, N., Sabu, B., Bandyopadhyay, A., & Rajagopal, R. (2024). Assessment of antibiotic resistance in chicken meat labelled as antibiotic-free: A focus on *Escherichia coli* and horizontally transmissible antibiotic resistance genes. *LWT*, 194, 115751.
- Rawat, N., Sabu, B., Bandyopadhyay, A., & Rajagopal, R. (2024). Assessment of antibiotic resistance in chicken meat labelled as antibiotic-free: A focus on *Escherichia coli* and horizontally transmissible antibiotic resistance genes. *LWT*, 194, 115751.

Rawat, N., Yadav, K., Jamwal, R., Sabu, B., Bandyopadhyay, A., & Rajagopal, R. (2023). Prevalence of multiple-drug resistance and identification of underlying antibiotic resistance genes in *Escherichia coli* isolated from ready-to-eat chicken salads being sold in restaurants in Delhi, India. *Food and Humanity*, 1, 951-957.

Rawat, N., Yadav, K., Jamwal, R., Sabu, B., Bandyopadhyay, A., & Rajagopal, R. (2023). Prevalence of multiple-drug resistance and identification of underlying antibiotic resistance genes in *Escherichia coli* isolated from ready-to-eat chicken salads being sold in restaurants in Delhi, India. *Food and Humanity*, 1, 951-957.

Senrunga, A., Tripathi, T., Aggarwal, N., Janjua, D., Chhokar, A., Yadav, J., ... & Bharti, A. C. (2024). Anti-angiogenic Potential of Trans-chalcone in an In Vivo Chick Chorioallantoic Membrane Model: An ATP Antagonist to VEGFR with Predicted Blood-brain Barrier Permeability. *Cardiovascular & Hematological Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Cardiovascular & Hematological Agents)*, 22(2), 187-211.

Senrunga, A., Tripathi, T., Yadav, J., Janjua, D., Chaudhary, A., Chhokar, A., ... & Bharti, A. C. (2023). In vivo antiangiogenic effect of nimbolide, trans-chalcone and piperine for use against glioblastoma. *BMC cancer*, 23(1), 1173.

Sharma, M., Singh, D. N., Uttam, G., Sharma, P., Meena, S. A., Verma, A. K., & Negi, R. K. (2024). Adaptive evolution of *Sphingopyxis* sp. MC4 conferred degradation potential for persistent β - and δ -Hexachlorocyclohexane (HCH) isomers. *Journal of Hazardous Materials*, 461, 132545.

Shrivastava, N. K., & Shakarad, M. N. (2023). Correlated responses in basal immune function in response to selection for fast development in *Drosophila melanogaster*. *Journal of Evolutionary Biology*, 36(5), 816-828.

Shrivastava, N. K., Yadav, A., Rauhila, N., Farand, A. K., Khatri, M., & Shakarad, M. N. (2023). The molecular underpinnings of body size regulation: Transcriptional changes in foxo and mTor in *Drosophila melanogaster* selected for fast development. *Gene Reports*, 33, 101841.

Singh, T., Aggarwal, N., Thakur, K., Chhokar, A., Yadav, J., Tripathi, T., ... & Bharti, A. C. (2023). Evaluation of therapeutic potential of selected plant-derived homeopathic medicines for their action against cervical cancer. *Homeopathy*, 112(04), 262-274.

Sood, U., Müller, M., Lan, T., Garg, G., Singhvi, N., Hira, P., ... & Lal, R. (2024). *Amycolatopsis mediterranei*: A Sixty-Year Journey from Strain Isolation to Unlocking Its Potential of Rifamycin Analogue Production by Combinatorial Biosynthesis. *Journal of Natural Products*, 87(2), 424-438.

Talwar, C., Nagar, S., & Negi, R. K. (2024). Comparative analyses of gut microbiota reveal ammonia detoxification and nitrogen assimilation in *Cyprinus carpio* var. *specularis*. *Folia Microbiologica*, 1-13.

Thakur, K., Janjua, D., Aggarwal, N., Chhokar, A., Yadav, J., Tripathi, T., ... & Bharti, A. C. (2023). Physical interaction between STAT3 and AP1 in cervical carcinogenesis: implications in

HPV transcription control. *Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*, 1869(8), 166817.

Thomas, S., Kaur, J., Kamboj, R., Thangariyal, S., Yadav, R., Kumar, K., & Dhania, N. K. (2024). Investigate the efficacy of size exclusion chromatography for the isolation of extracellular vesicles from *C. elegans*. *Journal of Chromatography B*, 1233, 123982.

Yadav, H., Bhardwaj, R., Bakshi, A., Gupta, S., & Maurya, S. K. (2023). Unveiling the role of gut-brain axis in regulating neurodegenerative diseases: A comprehensive review. *Life Sciences*, 122022.

Yadav, K., Saurav, G. K., Rana, V. S., Rawat, N., Anjali, Jamwal, R., ... & Rajagopal, R. (2024). Polyubiquitin protein of *Aedes aegypti* as an interacting partner of dengue virus envelope protein. *Medical and Veterinary Entomology*, 38(1), 48-58.

Yadav, K., Saurav, G. K., Rana, V. S., Rawat, N., Anjali, Jamwal, R., ... & Rajagopal, R. (2024). Polyubiquitin protein of *Aedes aegypti* as an interacting partner of dengue virus envelope protein. *Medical and Veterinary Entomology*, 38(1), 48-58.

M.R. Ngasainao, M. R., Sharma, J. G., Chandra, S. and Chakrabarti, R. (2024). Embryonic and early larval development of snow trout *Schizothorax richardsonii* (Grey), Singapore, Springer, 9819717892.

Sood U, Hira P, Garg G, Lal R and Shakarad (2024). Deciphering the Microbial Dark Matter Using Metagenome-Assembled Genomes, Culturomics, and Seqcode, Academic Press, 978-0-443-13320-6, 747-757.

Kashyap MK, Bhat A, Janjua D, Rao R, Thakur K, Chhokar A, Aggarwal N, Yadav J, Tripathi T, Chaudhary A, Senrunga A and Bharti AC (2023). Role of angiotensin in different malignancies, *Angiotensin*, USA, Elsevier, 978-0-323-99618-1, 505-544.

Divya Janjua, Apoorva Chaudhary, Nikita Aggarwal, Arun Chhokar, Joni Yadav, Tanya Tripathi, Udit Joshi, Alok Chandra Bharti (2023). *Circulating Tumor Cells: A New Avenue for Clinical Management of Cervical Cancer*, India, BP International, 978-81-968135-7-4, 99-120.

Bharti, M., Modeel, S., Yadav, S., Yadav, P., Siwach, S., Dolkar, P. & Negi, R. K. (2023). Emerging Role of Gut Microbiome in Cancer Immunotherapy, Singapore, Springer, 978-981-99-3125-5, 409-427.

Sharma, M., Bharti, M., Modeel, S., Khurana, H., Negi, T., & Negi, R. K. (2023). Challenges of Multidrug-Resistant Microbes on Public Health, UK, CRC Press, 9781003220404, 363-376.

Maurya SK, Mishra R (2023). Modulation of neuroinflammation by natural molecules, Academic Press, 978-0-443-23763-8, 171-197.

Tripathy, M. (2023). Contraception, Human Reproductive Biology and Health, India, Pearson Education, 978-9356066328.

Kumar S., Tripathy, M. (2023). Anatomy and Histology of Female Reproductive System, India, Pearson Education, 978-9356066328.

Research Projects

Prof. Rina Chakrabarti - DST, Integrated farming of Lates calcarifer and Macrobrachium rosenbergii in Aquaponics System: A Sustainable Water Utilization Approach, Rs. 77 lacs.

Prof. Rina Chakrabarti - DBT, Evaluation of effect of macrophytes-based feed on the growth, gut physiology, expression of specific genes involved in the biosynthesis of DHA & EPA and production of quality freshwater fishes, Rs. 93.1704 lacs.

Prof. R. K.Negi - ICAR-NBAIM/AMAAS, Antimicrobial resistance in fish microbiome, (2023-2024) of Rs. 8 lacs.

Prof. R. K.Negi - IoE-DU, Unveiling the antibiotic resistance genes landscape: Shotgun metagenomics of gut microbiome of Labeo bata (Ham), Rs. 5 lacs.

Prof. Alok Chandra Bharati - CCRH, Effectiveness of add-on Homeopathy in treatment of Type-2 Diabetes with or without complications: A multicentric pragmatic double-blind randomized controlled trial, Rs. 18 lakhs.

Prof. Alok Chandra Bharati - ICMR, Circulating tumor cells in cervical cancer: identification, characterization and prognostic evaluation in predicting distant metastasis by omics approach, Rs. 99 lakhs.

Prof. Alok Chandra Bharati - ICMR, STAT3 - HPV Flow-FISH: Development of innovative single molecule RNA (smRNA) detection, flowcytometry-based quantitative and diagnostic assay for detection of transcriptionally active high risk-HPV infections, Rs. 220 lakhs.

Dr. Narender K. Dhanial - SERB, Role of extracellular vesicles in wound response and repair of Caenorhabditis elegans, Rs. 44.38 lacs.

Dr. Shashank K. Maurya - ICMR, Understanding the therapeutic role of cannabidiol-loaded nano-vesicles in Autism Spectrum Disorder (ASD), Rs. 52 lacs.

Dr. Kamlesh Kumari - IoE-DU, An insight into the interaction of pesticides with hemoglobin using spectroscopic, electrochemical & in silico approaches, Rs. 5.0 lacs.

Dr. Ashish Kumar Singh - SERB, Elucidating roles and regulation of Eukaryotic Translation Initiation Factor 5A (eIF5A) in plant and insect vector following geminivirus infection, Rs. 28.98 lacs.

Dr. Mamta Tripathy - ICMR, Unravelling possible role of asprosin in male reproduction: hormonal correlation with asprosin and its receptor in mice, Rs. 138.41 lacs.

Dr. Mamta Tripathy - ICMR, Exploring the effect of gestational diabetes mellitus on adipokine profile and ovarian functions of female offspring mice, Rs. 54.04 lacs.

Patents Filed/Granted

Supriya Chakraborty, Nirbhay Kushwaha, **Ashish Kumar Singh** (2023) “Chilli Leaf curl virus DNA-based chimeric construct for efficient plant inoculation” Patent Number: 452800.

Patent application no.: 202411002241 and A Reusable Digestion Tube for Amino Acid Assay.

Seminars Organized

Dr. Joykrushna Jena, Prof. Patrick Sorgeloos, Prof. Konrad Dabrowski, Dr. S. Ayyappan, Dr. Sachi Kaushik, Dr. Saroj Swain, Prof. Rina Chakrabarti, Prof. Jai Gopal Sharma, DDG (Fisheries Science), ICAR Ghent University Belgium The Ohio State University DG(former) ICAR Director of research (Retd), INRA, France Principal Scientist, CIFA, Bhubaneswar HoD, Zoology, DU. Delhi Technological University, University fund , FDP on “Skill Enhancement for Sustainable Aquaculture, 25-06-2023.

Prof. S. Murugavel, Dr. Shourya Dutta Gupta, Mr. Suparno Gupta, Dr. N.K.Dhanias, University of Delhi IIT Hyderabad Thermo Fisher Scientific Department of Zoology, SERB, Organized National workshop on Microscopy for college faculty members , 22-01-2024.

Seminar/Conference Presentations (National / International)

Prof. Alok C. Bharati

Prof. Alok C. Bharati, Circulating Tumor Cells: Adding New Dimensions to Cancer Detection and Management. Socio-Scientific Interaction in Diabetes, Cancer and its management. Millat College, LNMU, Darbhanga. 2023-05-20.

Prof. Alok C. Bharati, HPV Gene Expression and Carcinogenesis: An Update. AOGIN-INDIA2023: Vanquishing lower genital cancers: from prevention to treatment. AIIMS Rishikesh. 2023-09-16.

Prof. Alok C. Bharati, Evaluating Circulating Tumor Cells (CTCs) in Cervical Cancer Using ‘Omics’ Approach. International Conference on “Biology Beyond Boundaries” Mitochondrial Insights, Computational Breakthroughs, and Clinical Transformations. Department of Biotechnology, Savitribai Phule Pune University (SPPU), Pune. 2024-01-29.

Prof. Alok C. Bharati, In vivo Antiangiogenic Effect of Nimbolide, Trans-chalcone and Piperine for use against Glioblastoma. 6th International Conference on Nutraceuticals and Chronic Diseases (INCD-2024). Panjab University. 2024-02-22.

Prof. Alok C. Bharati, Lecture on Basics of Cell Culture and its Application in Clinical Research. Hands-on Cell Culture Workshop. Multi-disciplinary Research Unit, UCMS & GTBH. 2023-09-26.

Prof. R. K.Negi

Prof. R.K.Negi, Omics approaches transforming biodiversity research. International Conference on “Metallomics, Biodiversity and Human health: Recent Advances and Synthesis (ICMBHH, 2023). School of Life Sciences, Manipur University. 2024-02-22.

Prof. R.K.Negi, Fish gut microbiome: past, present and future. Himalayan Science and Technology 2023 (HiSTCon 2023). Shoolini University. 2023-05-21.

Dr. Ananya Bandyopadhyay

Dr. Ananya Bandyopadhyay, Expanding the outer membrane protein repertoire of *Borrelia burgdorferi*. 16th Young Investigator Meeting-2024. IISER Bhopal.

Dr. Pushp Lata

Dr. Pushp Lata, Creating a Standardized System for Naming and Classifying Uncultivated Prokaryotes: The Development of the SeqCode. Federation of European Microbiological Societies International conference (FEMS 2023). Johann Wolfgang Goethe Universitat Frankfurt am Main Max-von-Laue Str. 2023-07-10.

Dr. Pushp Lata, SeqCode – A novel nomenclatural system to accommodate the previously unattended unculturable prokaryotes. Second Southeast Asian Regional Symposium on Microbial Ecology (SASME-2023). Tribhuvan University, Kathmandu, Nepal. 2023-11-03.

Dr. Pushp Lata, Scientific Writing and Communication. One day workshop organized by Acharya Narendra Dev college University of Delhi in association with International Society for Microbial Ecology (ISME). AND College, DU. 2024-02-13.

Dr. Pushp Lata, Microbial Synergy Driven Environmental Biotechniques Used for Treating HCH-Contaminated Soils: Insights from Consortium Analysis and Hot Spring Metagenomics using SeqCode-Based Nomenclature. Conference on Technological Advancements for Sustainable Development towards Biodiversity Conservation. Shoolini University Solan Himachal Pradesh. 2024-02-23.

Dr. Shashank K. Maurya

Dr. Shashank K. Maurya, Olfml3 could act as a central molecule in the regulation of microglia-mediated brain immunity. 41st Annual Meeting of the Indian Academy of Neuroscinece& International Conference on Brain: Chemistry to Cognition. Jiwaji University, Gwalior, India. 2023-10-06.

Dr. Shashank K. Maurya, Olfml3 interacts with Iba1 in brain of mice. International Conference on Advances in Biological Sciences for Sustainable Development. Central University of Jammu, Jammu, India. 2024-01-01.

Dr. N.K. Dhania

Dr. N.K. Dhania, Recent trends in microscopy. Recent Trends in Molecular Biology and Bioinformatics. Central University of Haryana. 2024-01-25

Dr. N.K. Dhania, Elucidating therapeutic potential of extracellular. 1st Entomology Student Enclave. UAS, GKVK, Bangalore. 2024-01-23.

Dr. N.K.Dhania, Technical session on 26 June 2023. SERB-India- Accelerate Vigyan Scheme (Karyashala). Molecular Biology tools and Techniques. Central University of Haryana. 2023-06-26.

Dr. Swati Singh

Dr. Swati Singh, Development of multiepitope vaccine from regulatory proteins of Mycobacterium tuberculosis – a step towards End TB strategy. 18th International Congress of Immunology. University of Cape Town. 2023-12-01.

National/International MoUs Signed

Central Council for Research in Homeopathy, Delhi for the Project titled “Effectiveness of add-on Homeopathy in treatment of Type-2 Diabetes with or without complications: A multicentric pragmatic double-blind randomized controlled trial”.

Central Council for Research in Homeopathy, Delhi for the Project titled “Identification of Homoeopathic medicines with Anti-Cervical Cancer and Anti-HPV Activity (Phase II)”.

Delhi State Cancer Institute, Delhi for the Project titled “Circulating tumor cells in cervical cancer: identification, characterization and prognostic evaluation in predicting distant metastasis by omics approach”.

Delhi State Cancer Institute, Delhi for the Project titled “STAT3 - HPV Flow-FISH: Development of innovative single molecule RNA (smRNA) detection, flowcytometry-based quantitative and diagnostic assay for detection of transcriptionally active high risk-HPV infections”.

Guru Teg Bahadur Hospital, Delhi for the Project titled “STAT3 - HPV Flow-FISH: Development of innovative single molecule RNA (smRNA) detection, flowcytometry-based quantitative and diagnostic assay for detection of transcriptionally active high risk-HPV infections”.

Placement Details: Thirty two (32)

Extension and Outreach Activities

Prof. Alok C. Bharati - Guest Lecture on Advancements in Cancer Biology: Unraveling New Frontiers at e-Samvaad Centre, MHRFDC, Hansraj College (Alumni Association, Hansraj College), University of Delhi, Delhi, 21st July 2023.

Ananya Bandyopadhyay - Delivered an invited talk titled “Protein folding in health and disease” at the valedictory function of ‘Synergia’, Life Science Society of Deshbandhu College on June 16th, 2023.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 15

Other Significant Information

Faculty members of the Department, in addition to the teaching and research, also serve as experts in government research funding bodies. Our esteemed faculty members are also part of the editorial team of high-impact journals of international repute and empanelled as experts in various central and state selection commissions.

FACULTY OF SOCIAL SCIENCES
ADULT, CONTINUING EDUCATION AND EXTENSION

Publications

Research Articles

Scopus

Bhatt, K., Kumar, J., Kabia, S. K., Ashutosh, K., Seabra, C. & Gangotia, A. (2024). Can Tourism Employment Ramp-up the Economic Well-Being of Households? Evidence from Haridwar and Dehradun, India. *Asia-Pacific Journal of Innovation in Hospitality & Tourism*, 13(1).

Gupta, R. K. (2024). Identifying Urban Hotspots and Cold Spots in Delhi Using the Biophysical Landscape Framework. *Ecology, Economy and Society—the INSEE Journal*, 7(1), 137-155.

Ranjan, R. & Yadav, R. (2023). Promoting Gender Equality and Inclusivity : Empowering Transgender person to achieve Sustainable Development Goals (SDG). *International Journal of Multidisciplinary Educational Research*, 12(9(5)), 140-154.

Singh, S. & Gupta, R. (2023). Kidnappers' spatial mobility and kidnapping activities: A case of Delhi urban system, India. *Transactions of the Institute of Indian Geographers*. 45(1). 53-66.

UGC- Care

Doungal, R.L. (2023). Community Learning Centre as a promising medium to promote lifelong learning for sustainable development. *Indian Journal of Lifelong Learning & Educational Guidance*, 4(1), 7-21.

Pandey, A. & Dixit, V. K. (2023). Empowering Dreams: An Analysis of PMMY's Impact on Micro-Entrepreneurship and Financial Inclusion. *International Journal of Novel Research and Development*, 8(7), d720-d726.

Rajesh, & Mishra, G. (2023). A Qualitative Exploration of The Transgender Students Experiences in Higher Educational Institutions in Delhi. *NISD Journal*, 3(1), 37-45.

Sisodia, A., Rathour, S., Singh, A.K. & Sisodia, V. (2023). Varietal assessment of Gladiolus for growth, flowering and yield attributes. *The Pharma Innovation Journal*, 12(11), 1046-1051.

Sisodia, V. (2024). Reaffirming the Environmental Adult Education in the Global World . *Migration Letters*, 21(4), 1801–1811.

Tyagi, A., Mishra, G. & Ansari, A. H. (2023). Performance Management System Effectiveness and Employee Engagement: A Study of Service Sector Employees. *Finance India*, 37(1).

Research Projects

Rupesh Kumar Gupta- Urban Heat Island and Micro-Climate Variations of Delhi NCR, The Institution of Eminence, University of Delhi, ₹ 3 Lakh.

Conferences Organized

Sustainable Development: A towards Lifelong Learning. Speakers: Prof. Usha Sharma, NCERT, Prof. Shanker Choudhary, UNISCO, Prof. Mirdula Seth, UNFPA Prof. S. Y. Shah, IAEA, Professors, University Delhi and NISD, January 20, 2024

Seminar/Conference Presentations

International

Geeta Mishra

India-Africa Relations: Exploring New Pathways and Building the Future Together, Department of African Studies, University of Delhi, March 6, 2024.

National

Geeta Mishra

Rights of Third Gender: A Way Forward to Inclusivity, School of Legal Studies, K.R Mangalam University, Nov 23, 2023.

National Level Training Program on Social Defence Issues for Social Work Educators on the Provision of Transgender Person (Protection of Rights) Act, 2019 and Rules 2020, NISD, MOSJE, April 23, 2024.

Prakash Narayan

Unstainable Community Development, Atma Ram Sanatan Dharma College, University of Delhi, March 12, 2024.

Cooperative Societies as Sustainable Social Entrepreneurship, Department of Continuing Education and Extension, University of Delhi, March 21, 2024.

Rashtra' Vis-à-vis Nation: Rethinking Cultural Nationalism, Lakshmibai College, University of Delhi, Feb 28, 2024.

Vandana Sisodia

Rese-methods of data collection, analysis and report writing, IGNOU, IAEA (webinar), Oct 3, 2023.

Processes of the people of central Asia: yesterday today, Ashkent State University of oriental studies, Nov 16, 2023.

National/International MoUs Signed : 01

Students under Exchange Programme: 01

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 02

M.Phil.: 08

Faculty Strength

Professor: 04

Associate Professor:	02
Assistant Professor:	03
Total:	09

AFRICAN STUDIES

Publications

Research Articles

Scopus

Telila, S. T. & Kapoor, R. (2023). Response mechanism for women refugees in the comprehensive refugee response framework in Ethiopia. *Journal of Namibian Studies: History Politics Culture*, 35, 1739-1759.

Journal Published by the Department

Indian Journal of African Studies, Department of African Studies, New Delhi, 0971-5320.

Seminars Organized

Mahatma Gandhi and Gandhism today: energizing India's relation with Africa, Keynote. Speaker: Prof. Yogesh Singh, Vice Chancellor, University of Delhi, April 7, 2023.

Historical approaches to understand East Africa from 18th to 20th century. Speaker: Prof. Adhya Bharti Saxena, Maharaja Sayajirao University of Baroda Gujarat, Sept 1, 2023.

Comprehensive refugee response mechanism of Uganda. Speaker: Col. Simon Peter Oyoo, Defense Advisor Uganda High Commission, New Delhi, Oct 20, 2023.

Empowering the Afro-Indians. Speaker: Shri Hirabaiben Ibrahim Lobi, President, Adivasi Mahila Sang, Nov 17, 2023.

Seminar/Conference Presentations

International

A. S. Yaruigam

Dynamics of Inward Foreign Direct Investment in Africa: A Regional Analysis, India-Africa Relations: Exploring New Pathways and Building the Future Together, Department of African Studies, Faculty of Social Sciences, University of Delhi, March 7, 2024.

Manish Karmwar

Indian Philosophy of Vashudhaiv Kutumbkam and African Philosophy of Ubuntu Mahatma Gandhi and Gandhism Today: Energizing India's Relations with Africa, Department of African Studies, University of Delhi, April 6, 2023.

Rashmi Kapoor

Gandhi, Ambedkar aur Mandela ka Samajik Nyay, Mahatma Gandhi and Gandhism Today: Energizing India's Relations with Africa, Department of African Studies, University of Delhi, April 7, 2023.

Suresh Kumar

Africa-Bhartiya Knowledge Traditions of Yoga Science for Human Development, Bharatiya Knowledge Traditions, Centre for Health, Culture and Personality Development, Central University Gandhinagar, Gujarat, Feb 1, 2024.

National

A. S. Yaruigam

Turkey's Ascendancy in Africa: Challenges and Geopolitical Implications, Africa's Global Engagement: Opportunities and Challenges, The Centre for Gender and Africa Studies at the University of the Free State (South Africa); Centre of Africa Studies, Jawaharlal Nehru University India and African Studies Association of India, Feb 27, 2024.

Manish Karmwar

Heerabai Ben Ibrahim Lodhi: A Journey of a Social Entrepreneur, Women in Decision-Making Roles in Corporates, Non-Collegiate Women's Education Board (NCWEB), University of Delhi, Nov 23, 2023.

Redefining Global Alliances: Africa, the G20, and India, India in the Emerging Global Order, Department of Political Science, University of Calicut, in collaboration with the Society for Social Empowerment, Oct 24, 2023.

Indian knowledge system and Significance of Rivers, Indian knowledge system and Significance of Rivers, Satyawati College (M&E). SLCE, University of Delhi & ICHR, April 20, 2023.

Decolonising The Indian Mind: Rethinking Nation And Nationalism For Indigenous Development, Rashtra' Vis-A-Vis Nation: Rethinking Cultural Nationalism, LBC & University Of Delhi, Feb 29, 2024.

Sandipani Dash

India and AU in G-20 for an Inclusive World, G-20 Presidency and India's Global Leadership Role, Baba Saheb Ambedkar Convention Centre, IGNOU, New Delhi, Jan 10, 2024.

Bharat and South Africa in G20: A Cultural Narrative, India-South Africa: Convergence and Concerns, Zakir Husain Delhi College (Evening), University of Delhi, Sep 14, 2023.

Indo-AU Collaboration for an Inclusive World, Inclusive G20 – The Africa Dimension", NITI Aayog, Nov 1, 2023.

Suresh Kumar

Bharat-Africa Cultural and Civilizational Linkages, Center for Studies of International Relations, Feb 28, 2024.

Dr. Ambedkar's Action on Education and Women Empowerment, Mahanirvan Divas of Dr B R Ambedkar, Department of Political Science. Kalindi College. University of Delhi, Dec 6, 2023.

Dr. Ambedkar's Philosophy on the origin of the Bhartiya Caste System, Ambedkar's Philosophy on the origin of the Bhartiya Caste System, Post Graduate College, Sector 46, Chandigarh, Nov 17, 2023.

India's Relationship with South Africa during the Post-Independence Era, India's Relationship with South Africa during the Post-Independence Era , Department of West Asia and North African Studies. Faculty of International Studies. Aligarh Muslim University, Nov 6, 2023.

National/International MoUs Signed: 01

Other Inter-Institutional Collaboration: 01

Placement Details: 30

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 15

M.Phil.: 20

Faculty Strength

Professor: 03

Associate Professor: 00

Assistant Professor: 03

Total: 06

Other Significant Information

Organised one day research scholars workshop on digital skills and creating PowerPoint presentation, July 25 , 2023.

EAST ASIAN STUDIES

Major Activities and Achievements

Two MoUs signed with the Korea Foundation and KNU.

Publications

Research Articles

Scopus

Ranjan, R. (2003). India's G20 Presidency: Implications for the Latin American Region in the Framework of the Global South. *India Quarterly*, 0974-9284, 79(4), 514-524.

Books/Chapter in Books

Ranjan, R. & Senevirathna, A. (2003). Emerging Power rivalry in the Indian Ocean: Sri Lanka's Strategic Choices for Engaging India, China and the United States. In Asantha Senevirathna (ed.) Geopolitics of India- Sri Lanka Relations: A way forward, KDU Press, Sri Lanka. 169-188, 9786246427115, 6246427111.

Seminars Organized

Sunzi's Art of War. Speaker: Shri. M V Rappai, Former Research Fellow, IDSA, New Delhi, 12-02-2024.
Speaker: Amb. Ashok K. Kantha, India's Ambassador to China India's China Challenge, March 4, 2024.

The Sounds and Colours of Shinto Rituals at the Ise Grand Shrine, Japan. Speaker: Dr. Michiko Urita, Associate Professor of Ethnomusicology Kogakkan University, ISE, Japan, March 11, 2024.

Heritage Matters. Speaker: Prof. Kishor K. Basa, Chairman National Monument Authority, India, March 18, 2024

A Practical Session on Stata. Speaker: Dr. Akhil Alha, Assistant Professor, Council for Social Development, Delhi, June 15, 2023..

Influences of East Asian Historical Tradition on the Buranji Tradition of Assam. Speaker: Dr. Dharitri Narzary, Assistant Professor, Dr. B.R. Ambedkar University, Delhi, June 19, 2023.

Archival Research Making Sense of the Past. Speaker: Shri Avtar Singh Bhasin, Retired Head Historical Division Ministry of External Affairs, June 26, 2023.

Opportunity in Taiwan. Speaker: Mr. Peters Chen , Assistant Representative & Director, Education Division, Taipei Economic and Cultural Center in India, Jun 26, 2023.

Birds in Japanese Literature and Culture. Speaker: Prof. Yasuhiko Komatsu, Professor of Bibliography and Japanese Literature, College of Literature and Director of AGU International Centre, Sept 5, 2023.

Japan's Constitutional Revision Debate. Speaker: Prof. Tam Takamichi Mito, Visiting Scholar, Asia Institute, University of Melbourne, Oct 3, 2023.

Seminar/Conference Presentations

National

China's Global Initiatives Underscoring its New Era Ambitions, SLL & CS, Jawaharlal Nehru University, Dec 7, 2023.

Global Development Initiative and Sustainable Development Goals: Casting 'Chinese Ideology' in Developmental Leadership, 6th Goa Forum on China, Mumbai University, Mumbai, Dec 6, 2023.

Zhongnanhai: Chinese Party-State in Changing Times, School of International and Area Studies, Goa University, Oct 5, 2023.

Integrating interdisciplinary methodologies in the study of China, OCRA, The Grand New Delhi, Sep 26, 2023.

Discussion on Lianghui 2023: China's Two Sessions, ICS, Delhi, April 19, 2023.

National/International MoUs Signed

Korea Foundation & University of Delhi

KNU & University of Delhi

Students under Exchange Programme: 10

Placement Details: 02

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 08

Faculty Strength

Professor: 02

Associate Professor: 07

Assistant Professor: 04

Total: 13

ECONOMICS

Major Activities and Achievements

Winter School 2023 was held during December 14-16, 2023. Invited speakers John Wooders (NYU Abu Dhabi), Jordi Gali (CREi and Universitat Pompeu Fabra) and Joel Mokyr (Northwestern University) provided perspective surveying the latest research in their field of expertise.

Publications

Research Articles

Scopus

Dua, P. & Verma, N. (2024). FDI–Growth Nexus in Emerging Economies: Role of Financial Sector Development. *Foreign Trade Review*, 00157325241227326.

Dua, P. & Verma, N. (2024). Drivers of Foreign Direct Investment Inflows to Emerging Asian Economies. *Journal of Emerging Market Finance*, 23(1), 83-107.

Dua, P. & Tuteja, D. (2023). Synchronization in Cycles of China and India During Recent Crises: A Markov Switching Analysis. *Journal of Quantitative Economics*, 21(2), 317-337.

Fredriksson, P. G., & Gupta, S. K. (2023). Irrigation and gender roles. *Journal of Development Economics*, 163, 103076.

Kumar, V. & Dua, P. (2024). What explains foreign portfolio investment inflows to BRICS countries?. *Economic Analysis and Policy*, 82, 32-46.

Kumar, N. & Maiti, D. (2024). Long-run macroeconomic impact of climate change on total factor productivity—Evidence from emerging economies. *Structural Change and Economic Dynamics*, 68, 204-223.

Maiti, D. & Neogi, C. (2024). Endogeneity-corrected stochastic frontier with market imperfections. *Empirical Economics*, 1-35.

Maiti, D., Kumar, N., Jha, D. & Sarkar, S. (2024). Post-COVID recovery and long-run forecasting of Indian GDP with Factor-Augmented Error Correction Model (FECM). *Computational Economics*, 63(3), 1095-1120.

Mukherjee, A. & Sinha, U. B. (2024). Product Market Cooperation, Foreign Direct Investment and Consumer Welfare. *Review of Industrial Organization*, 64(2), 315-326.

Sethi, R. & Somanathan, R. (2023). Meritocracy and representation. *Journal of Economic Literature*, 61(3), 941-957.

Singh, R. (2024). How to Improve Policies and Their Implementation. *Economic and Political Weekly*, 59(12), 446.

Singh, R. & Ray, S. (2023). Under-reporting of Income by Wealthy Indians. *National Institute of Educational Planning and Administration (NIEPA)*, 58(20), 17.

Singh, R. (2023). Examining the Law and Economics Paradox of India. *Economic and Political Weekly*, 58(32), 272.

UGC-Care

Maiti, D. & Singh, P. (2023). Foreign Capital Inflow, Exportability and the Indian Economy. *The Indian Economic Journal*, 71(3), 581-597.

(b) Books/Chapter in Books

Kumar, A. & Kumar, M. (2023). Migration, Marginality and Development: The Case of Bihar. In S. K. Bhaumik (Ed.) *Development with Justice: The Bihar Experience*. Routledge, 9781032626413.

Research Projects

Devesh Birwal & Param Jit- An Evaluative Study of Ayushman Bharat in Rural Haryana, Indian Council of Social Science Research, ₹ 10 Lakh.

Mausumi Das- SERB Grant on Female Labor Force Participation, , Institutions for promoting gender-parity in the Indian labor market, ₹ 80 Lakh.

Ram Singh, (CDE, Edward Glaeser (Harvard University) and Andrei Shleifer (Harvard University)- Does privatization lead to better quality of roads?, ₹ 27.56 Lakh.

Ram Singh- Relationship between Income, Wealth and Tax payment in India, Indian Council of Social Science Research, ₹ 14 Lakh.

Seminars Organized

Testing, Tracking, and Parental Investment, Speaker: Rajiv Sethi, Bernard College, Columbia University, March 14, 2024.

Market for Gems: Information-forcing Effects of Non-Disclosure rules, Speaker: Arijit Sen, IIM Calcutta, March 13, 2024.

Market for Gems: Information-forcing Effects of Non-Disclosure rules, Speaker: Francesco Parisi, University of Minnesota, Feb 13, 2024.

Cruel and Unusual Punishment: Violence from Unmitigated Heat in Prison, Speaker: Anita Mukherjee, University of Wisconsin Madison, Feb 15, 2024.

Sovereign Default and Tax-smoothing in the Shadow of Corruption and Institutional Weakness, Speaker: Nirvana Mitra, CAFRAL and Shiv Nadar University, Feb 8, 2024.

Redistributive Policy Shocks and Monetary Policy with Heterogeneous Agents, Speaker: Chetan Ghate, IEG and ISI Delhi, Feb 1, 2024.

On Deflecting Economic Sanctions: Do Trade and Political Alliances Matter?, Speaker: Devasmita Jena, Madras School of Economics, Nov 23, 2023.

Mental Health and Noise Pollution, Neha Khanna, Speaker: Birghamton University, 18th Jan., 2024.

Early childhood factors and health pathways to disability and death in mid-ages – A multi-state time-to-event life history model, Speaker: Lakshmi K Raut, University of Chicago, Nov 9, 2023.

Heterogeneous Agent Quantal Response Equilibrium, Speaker: Jeevant Rampal, IIM Ahmedabad, Oct 12, 2023.

Why are Indians unemployed?, Speaker: Dhanmanjiri Sathe, Gokhale Institute of Political Science, Oct 5, 2023.

The Effect of Supply Base Diversification on the Propagation of Shocks, Speaker: Girish Bahal, University of Western Australia, Sept 21, 2023.

Multi-market contact, cartel and product quality, Speaker: Neelanjan Sen, Madras School of Economics, Sept 20, 2023.

Health and economic inequality during pandemics: A heterogeneous agent perspective, Speaker: Aditya Goenka, University of Birmingham, Sept 14, 2023.

Conflict, Rural markets, and Social costs, Speaker: Anand Murugesan, CEU Vienna, Aug 24, 2023.

Flexible Bayesian Quantile Analysis of Residential Rental Rates, Speaker: Arshad Rahman, IIT, Kanpur, Aug 10, 2023.

Incomplete information price competition revisited: fixed costs matter, Speakers: Krishnendu Ghosh Dastidar, JNU and Makoto Yano, Kyoto University, Aug 10, 2023.

Do financial incentives increase schooling and defer child marriage? Evidence from conditional cash transfers in West Bengal, India, Speaker: Vaishali Jain, University of California-Riverside, Aug 9, 2023.

Estimating expected asset returns with the present value model of consumption and Fed forecasts, Speaker: Kundan Kishore, University of Wisconsin-Milwaukee, Aug 3, 2023.

Educational investments in low-income households: The role of parental occupational identity and substitutability, Speaker: Aparna Anand, Columbia University, 27th July 2023.

The pursuit of power: The causes and consequences of local political selection in Bihar, Speaker: Ramakrishna Sharan Mamidipudi, University of Maryland, July 24, 2023.

Inferring trade-offs in university admissions: Evidence from Cambridge, Speaker: Debopam Bhattacharya, University of Cambridge, July 20, 2023.

Does social identity constrain rural entrepreneurship? The role of financial inclusion, Speaker: Sandhya Garg, Institute of Economic Growth, July 13, 2023.

Peripheral social transforms in the current crisis date, Speaker: Paris Yeros, Universidade Federal do ABC, Jun 8, 2023.

Water water everywhere, not a drop to drink? Information and enabling access to clean water in India, Speaker: Rashmi Barua, Jawaharlal Nehru University, Jun 1, 2023.

Importance of English as a second language: learnings from a language experiment in India, Speaker: Gitanjali Sen, Shiv Nadar University, May 18, 2023.

Support prices, input subsidies and misallocation in Indian agriculture, Speaker: Pubali Chakraborty, Ashoka University, May 12, 2023.

Does "financial affirmative action" affect meritocratic well-being? Evidence from a directed credit program, Speaker: S. K. Ritadhi, Ashoka University, April 6, 2023.

Empirically testing game theory, Speaker: John Wooders, NYU Abu Dhabi, Dec 16, 2023.

Economic fluctuations: neo-classical and New Keynesian perspectives, Speaker: Jordi Gali, CREi and Universitat Pompeu Fabra, Dec 16, 2023.

The Great Divergence, Speaker: Joel Mokyr, Northwestern University, Dec 16, 2023.

Seminar/Conference Presentations

International

Birwal Devesh

Moving through the stages of development: How is the Asian economy changing?, XI Annual Conferences on the Global Economy, Higher School of Economics, Moscow, Nov 29, 2023.

Dibyendu Maiti

Trade, Union and Labour Share, Henan University, China, Dec 16, 2023.

Manish Kumar

Migration, marginality and development: the case of Bihar, Patliputra School of Economics, Patna, Jun 2, 2023

Agrarian economy of Bihar: Structural constraints vs technological optimism?, Sam Mayo African Institute of Agrarian Studies, Harare, Zimbabwe, Feb 5, 2023.

Ram Singh

Targeting tax evasion, Annual Meeting of American Law and Economics Association, Boston, USA, Jun 9, 2023.

Do tax laws incentivise wealthy groups to underreport their income?, Law and Economics Lecture Series, Bucerius Law School, Germany, May 23, 2023.

Uday Sinha

Economic Challenges in Changing Global Scenario, Young Minds in Frontier of Economics, IIT Bombay, Feb 21, 2024.

Multi-market contact and collusion, 2nd Annual Conference, Department of Economics, St. Xavier's University, Kolkata, March 1, 2024.

Varun K. Das

Manufacturing becoming a Rural Phenomenon in India? Evidence from Indian Manufacturing Sector, Political Economy of Agricultural Value Systems in India: Regional Perspectives and Policy Implications for Labour and Agri-business, Jawaharlal Nehru University, Sep 29, 2023.

National

Dibyendu Maiti

Unlocking the impact of climate change on industry total factor productivity, Institute for Studies in Industrial Development, Nov 17, 2023.

Long-run macroeconomic impact of climate change on total factor productivity- Evidence from emerging economies, South Asian University, Nov 8, 2023.

Industrial statistics of Indian economy, Indian Statistical Service Probationers, NASSTA, Greater Noida, April 28, 2023.

Digitalisation, governance and the informal sector, 18th Annual Conference on Economic Growth and Development, Indian Statistical Institute, New Delhi, Dec 18, 2023.

Prof. Pami Dua

Financial inclusion: Perspectives and Initiatives, Department of Sociology, Venkateshwara College, Feb 23, 2024.

Monetary policy in the global economy: The case of India, Inaugural Keynote Address (virtual), Panjab University, Chandigarh, Feb 19, 2024.

Monetary policy in India: A global perspective, P. C. Jain Memorial Lecture, Kurukshetra University, Feb 7, 2024.

Lifestyle for Development: Towards an alternative Development Paradigm, Global Conclave 2024, Advancing Human Development, Global South Institute for Human Development, New Delhi, Jan 12, 2024.

Nexus between trade, investment and climate change in South Asian economies, Achieving regional economic integration in South Asia, Manohar Parikar Institute for Defence Studies and Analyses, New Delhi, Dec 15, 2023.

India and the global economic outlook: OECD economic outlook, Policy Roundtable, Institute for Studies in Industrial Development, New Delhi, Dec 8, 2023.

Exploring the ethical and social implications of scientific research: A multidisciplinary perspective, Ministry of Education and Springer Nature, Institute of Mineral and materials Technology, Bhubaneswar, August 26, 2023.

Monetary Policy in India: A Global Perspective, Growth, Development and Productivity, Delhi School of Economics, March 7, 2024.

Manish Kumar

Agrarian economy of Bihar: Structural constraints vs technological optimism?, Centre for Informal Sector and Labour Studies, Jawaharlal Nehru University, Sep 29, 2023.

Comprehensive measures of economic growth: GDP and beyond, Department of Economics, Banaras Hindu University, Oct 6, 2023.

Fostering economic growth: Through fiscal equality initiatives, Dayal Singh College, university of Delhi, Oct 27, 2023.

Prof. Ram Singh

Do Tax Laws Incentives Wealthy Groups to Underreport their Income?, Conference on Law, Economics and Public Policy, GNLU, Gandhinagar, Jan 21, 2024.

The Indian Income Tax Regime Re-examined, 106th Annual Conference of the Indian Economic Association, Bhubaneshwar, Dec 29, 2023.

Using general election filings to examine income reporting behaviour in India, 18th Annual Conference on Economic Growth and Development, ISI Delhi, Dec 19, 2023.

Dealing with India's food security trilemma, Kautilya Economic Conclave, New Delhi, Oct 20, 2023.

Soumendu Sarkar

Strategy proof and budget balanced mechanisms for assembly, SECS, Jawaharlal Nehru University. Dec 10, 2023.

Soumendudate2024-02-13title Strategy proof and budget balanced mechanisms for assembly, IIT Jodhpur, Feb 13, 2024.

Varun K. Dash

Poverty and Inequality Measurement, Prayaas (virtual), Centre for New Economic Studies, School of Liberal Arts and Humanities, O. P. Jindal Global University, March 16, 2024.

Developing curricula and textual material for Economics, Developing Curricula in Economics, Deccan Education Society University, Dec 21, 2023.

Vishruti Gupta

Platform economics, Kalindi College, University of Delhi, April 3, 2023.

Other Inter-Institutional Collaboration

02

Placement Details

223

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 03

M.Phil.: 02

Faculty Strength

Professor:	12
Associate Professor:	01
Assistant Professor:	13
Total:	26

GEOGRAPHY

Major Activities and Achievements

In the 2024 QS World University Rankings for geography, the department ranked 151.

Honours/Distinctions

Anindita Datta was awarded the prestigious Jan-Monk service award 2023 by the Association of American Geographers (AAG), Feminist Geography Specialty Group for her contributions to feminist geography and service to women in geography in India.

Publications

Research Articles

Scopus

Baidya, A. & Saha, A. K. (2024). Exploring the research trends in climate change and sustainable development: A bibliometric study. *Cleaner Engineering and Technology*, 100720.

Basumatary, M. G., Anand, S., Prasad, S. & Nagarale, V. (2022). Spatio-temporal analysis of air quality index. *International Journal of Health Sciences (IJHS) (En LiNea)*, 12332–12352.

Barhadiya, G., Purkayastha, J., Saha, A. K. & Ghosh, C. (2024). Spatial and temporal assessment of snake encounters in urban Delhi, India. *Scientific Reports*, 14(1), 5506.

Dabral, A., Shankhwar, R., Martins-Ferreira, M. A. C., Pandey, S., Kant, R., Meena, R. K. & Nayak, S. (2023). Phenotypic, Geological, and Climatic Spatio-Temporal Analyses of an Exotic *Grevillea robusta* in the Northwestern Himalayas. *Sustainability*, 15(16), 12292.

Gao, W., Huang, J., Qiu, Q., Shrestha, A., Yuan, C., Anand, S. & Wang, G. (2023). Conservation and Management of Protected Areas in China and India: A Literature Review (1990–2021). *Climate*, 11(1), 22.

Husain, M. A., Kumar, P. & Gonencgil, B. (2023). Assessment of Spatio-Temporal Land Use/Cover Change and Its Effect on Land Surface Temperature in Lahaul and Spiti, India. *Land*, 12(7), 1294.

- Kumar, P., Thakur, S., Junawa, S. & Anand, S. (2024). Altitudinal Appraisal Of Land Use Land Cover And Surface Temperature Change In The Satluj Basin, India. *Geography, Environment, Sustainability*, 16(4), 26-38.
- Kumar, R., Kumar, M., Tiwari, A., Majid, S. I., Bhadwal, S., Sahu, N. & Avtar, R. (2023). Assessment and Mapping of Riverine Flood Susceptibility (RFS) in India through Coupled Multicriteria Decision Making Models and Geospatial Techniques. *Water*, 15(22), 3918.
- Majid, S. I., Kumar, M., Kumar, P. & Verma, N. K. (2023). GIS-Based flood susceptibility mapping of Srinagar District, India using weights-of-evidence (WofE), frequency ratio (FR) and fuzzy gamma operator (FGO). *Journal of the Indian Society of Remote Sensing*, 51(12), 2421-2446.
- Mondal, B., Bhomia, R. K., Saha, A. K. & MacKenzie, R. A. (2024). Assessment of coastal and mangrove vulnerability in the Andaman Island, Indian Ocean. *Geoscience Frontiers*, 15(5), 101820.
- Mishra, M. M., Sahu, N., Pani, B., Chakraborty, A. & Mallick, G. (2023). Assessment of Human Health Vulnerability in Kalahandi-Balangir-Koraput Region of Odisha, India. *Journal of Communicable Diseases* (E-ISSN: 2581-351X & P-ISSN: 0019-5138), 55(2), 1-8.
- Mishra, H., Pandey, B. W., Mukwada, G., De Los Rios, P., Nigam, N. & Sahu, N. (2023). Trapped within nature: climatic variability and its impact on traditional livelihood of Gaddi transhumance of Indian Himalayas. *Local Environment*, 28(5), 547-563.
- Pandit, P., Saini, A., Sahu, N. & Mehra, R. (2023). Geochemical evaluation and environmental risk assessment of heavy metals: A case study from Ireland using Tellus stream sediment data (2011–2017). *Groundwater for Sustainable Development*, 23, 100974.
- Pandey, B., Negi, V., Anand, S., Ranjan, O., Yadav, G. & Srivastava, S. (2023). Estimation Of Anomalies and Temporal Temperature and Precipitation Trends in The Cryospheric Himalayan Highland Region (CHHR), Uttarkashi, Uttarakhand, India. *Mausam*, 74(1), 29-42.
- Pragya, Kumar, M., Tiwari, A., Majid, S. I., Bhadwal, S., Sahu, N. & Avtar, R. (2023). Integrated spatial analysis of forest fire susceptibility in the Indian western himalayas (IWH) using remote sensing and GIS-based fuzzy AHP approach. *Remote Sensing*, 15(19), 4701.
- Saini, A., Sahu, N. & Nayak, S. (2023). Determination of Grid-Wise Monsoon Onset and Its Spatial Analysis for India (1901–2019). *Atmosphere*, 14(9), 1424.
- Sahu, N., Das, P., Saini, A., Varun, A., Mallick, S. K., Nayan, R. & Kumar, A. (2023). Analysis of Tea Plantation Suitability Using Geostatistical and Machine Learning Techniques: A Case of Darjeeling Himalaya, India. *Sustainability*, 15(13), 10101.
- Sarda, R., Gonengcil, B., Halder, S. & Kumar, P. (2024). A bibliometric analysis of agricultural vulnerability in the context of climate change from 2010 to 2021. *Spatial Information Research*, 32(3), 297-310.
- Shitole, A. D., Gupta, V., Gidwani, L., Verma, V., Rajora, S., Anand, S. & Tripathi, S. C. (2023). Bagh Dinosaur National Park Region, Dhar District, Madhya Pradesh: a Potential UNESCO Global Geopark. *Geoheritage*, 15(4), 116.
- Singh, S., Kumar, P., Parijat, R., Gonengcil, B. & Rai, A. (2024). Establishing the relationship between land use land cover, normalized difference vegetation index and land surface temperature: A case of Lower Son River Basin, India. *Geography and Sustainability*, 5(2), 265-275.

Srivastava, S., Pandey, B. W. & Negi, V. S. (2024). Community-based Approaches to Climate Change Adaptation and Livelihood Security in the High-Altitude Bhagirathi Valley of Garhwal Himalaya. *Journal of Resources and Ecology*, 15(1), 197-203.

UGC- Care

Nitharwal, T. R. (2024). Spatio-temporal analysis of local dairy farming along the Indira Gandhi canal in Rajasthan, India. *Sustainability, Agri, Food and Environmental Research*, 12(2).

Ranjan, O. J., Rani, U., Pandey, B. W., Mukwada, G., De los Rios Escalante, P., Akyuz, D. E. & Chaudhary, A. (2022). Spatial-Temporal Analysis of Physio-Climatic changes in Tawang-Chu River Basin, Eastern Himalaya in India. *International Journal of Ecology and Environmental Sciences*, 49(2), 217-230.

Saurabh, S., Pandey, B. W. & Prasad, A. S. (2022). Geo-Environmental hazards issues, challenges, and adaptation for livelihood security and disaster risk reduction in Rudraprayag District, Uttarakhand. *International Journal of Ecology and Environmental Sciences*, 49(2), 139-153.

Web Science

Kumar, P., Deka, D., Yadav, A., Kumar, M., Das, J. P., Singh, A. & Gurjar, A. (2024). Potential and actual evapotranspiration and Landsat derived indices. *Global Journal of Environmental Science and Management*, 10(3), 1227-1248.

(b)Books/Chapter in Books

Anand, S., Srinagesh, B. & Singh, R.B. (2023). *A Geographical Exploration of Urban Risk and COVID-19: An Innovative and Systematic Approach* (ed.) , UK , Cambridge Scholars Publishing , 1-5275-2940-1 , 344.

Anand, S., Das, M., Bhattacharyya, R. & Singh , R. B. (2023). *Sustainable Development Goals in Northeast India: Challenges and Achievements* (ed.) , Singapore , Springer Singapore , 978-981-19-6477-0 , 594.

Anand, S., Sharma ,V. R. & Sanu, S. K. (2023). *Global Pandemic Covid-19 as a Health Hazard: Issues and Challenges* (ed.) , UK , Cambridge Scholars Publishing , 978-1-5275-2940-3 , 186-214.

Das, S. & Saha, A. K. (2024). *Community Participation in Disaster Risk Reduction: A Case Study of Chamoli District, Uttarakhand* , Switzerland , Springer, Cham , 978-3-031-50112-8 , 273-296.

Datta, A., Momsen, J. & Oberhauser A.M. (2023). *Bridging Worlds - Building Feminist Geographies Essays in Honour of Janice Monk* (ed.) , New York , Routledge,9781032275628 , 272.

Jamal, S. & Sen, A. (2024). *Urban Flooding as an Emerging Challenge: Evidencesfrom Chennai City* , Switzerland , Springer, Cham , 978-3-031-50112-8 , 15-26.

Kapur, A. (2023). *Aura University of Delhi at 100* , New Delhi , University of Delhi , 978-81-862482-8-4 , 216.

Kumar, P., Paramjit & Anand, S. (2023). *An Analysis of the Performance of Sustainable Development Goals (SDGs) in the North-East Region of India: An Economics Perspective* (ed.) , Singapore , Springer Singapore , 978-981-19-6478-7 , 71-100.

Mishra, S. & Sen, A. (2023). *Sanitation Workers and Associated Problems for the Sustainability of Religious Events: A Case Study of Magh Mela, Prayagraj* (ed.) , New Delhi , The Energy Research Institute (TERI) , 978-93-94657-12-0 , 195-204

Prasad, A. S., Pandey, S. W., Abhay, R. K. & Priyanka (2024). Assessment of Fire Disaster Risk Reduction in Higher Educational Institutions in Delhi (ed.), Switzerland , Springer, Cham , 978-3-031-50112-8 , 165-184.

Sengupta, S. & Sen, A. (2024). Contending Global Warming by Popularising Environment-Friendly Fuel Compressed Natural Gas (ed.), Switzerland , Springer, Cham , 978-3-031-50112-8 , 71-85

Singh, B. V. R., Sen, A., Singh, M., Prasad, R. & Mishra, R. (2023). Assessing Human-Wildlife Conflicts in Tiger Corridor Habitat: A Case Study of Ranthambhore Tiger Reserve, India (ed.) , Singapore , Springer , 978-981-99-5478-0 , 183-196.

Sultana, S. F. S., Saha, P., Bhuyan, C., Das, M., Bhattacharyya, R. & Anand, S. (2023). Just Transition, (Re)-vision 2020- The Story Hitherto (ed.), Singapore , Springer Singapore , 978-981-19-6478-7 , 33-70.

Yadav, P. & Anand, S. (2023). Assessing the Knowledge, Attitude and Impact of Covid-19 on the Health of Healthcare Workers in Gandhinagar, Gujarat (ed.), UK , Cambridge Scholars Publishing , 978-1-5275-2940-3 , 118-137.

Research Projects

Pankaj Kumar- Evolving adaptive Feed-forward Agricultural Practices (FFAP) for climate vulnerable Tribal Households of Cold Desert region, Lahaul and Spiti District, CSSR, ₹ 7.5 Lakh.

Pankaj Kumar, Mapping and monitoring societal impacts of snow and vegetation dynamics in the Himachal Himalaya, IoE, University of Delhi, ₹ 3 Lakh.

Subhash Anand- Exploring the Regional Scale Development of Geotourism and Geoconservation of Geosites in the Bagh Region of Dhar District, MP, IoE, University of Delhi , ₹ 3 Lakh.

Subhash Anand (Co-PI), An Evaluative Study of Ayushman Bharat in Rural Haryana, CSSR, ₹ 1 Lakh.

B. W. Pandey- Monitoring and Mapping Climate Driven Glacial Retreat (CliDr- GlaR) and Modeling of Hydro- Flow- Shed Delineation (Hy-FloSheD) of Bea-Chen Pir Panjal (Beas – Chenab Valley of Pir Panjal Range), Lesser Himalaya, IoE, University of Delhi, ₹ 23.14 Lakh.

Netrananda Sahu- Impact of Climate Change and Anthropogenic Activities on Spring Disappearance: A Geospatial Study on issues of water security in Himachal Pradesh, India, CSSR, ₹ 9 Lakh.

Netrananda Sahu- Impact Assessment of Climatic Variability on Tea Production in Darjeeling Region of West Bengal using Artificial Intelligence and Machine Learning Techniques, TLC, Ramanujan College (PMMMNTT Scheme), ₹ 10.05 Lakh.

Netrananda Sahu- Diyara Identification, Vulnerability Assessment, Climate Change Projections, and Climate Resilient Solutions for the Bihar Gangetic Region, IoE, University of Delhi , ₹ 3 Lakh.

Anindita Datta- Delhi CRT & Linda Peake- GenUrb- Urbanization, Gender & the Global South : A Transformative Knowledge Network, Social Sciences & Humanities Research Council of Canada (SSHRC), \$2.5 Million.

Anindita Datta- Delhi PI & Elena Vacchelli, Arts and Humanities Research Council of UK, MAUSI : Menopause activism in UK, £ 36240.

Seminars Organized

Geographical Dimensions of Sustainability & Recovery: Social, Cultural and Environmental Concerns, Department of Geography, Delhi School of Economics University of Delhi, ICSSR, DU, SBI, April 4, 2023.

Seminar/Conference Presentations

International

Anindita Datta

Feminist City Writing in the Extraordinary and the Emergent: Notes from GenUrb's Delhi CRT, City Institute and Dept of Geography, York University, Canada, Oct 31, 2023.

Co-Producing Care Suffused Feminist Counterspaces: Notes from International Collaboration and a Feminist Geography Classroom , 9th International Critical Geographies Conference, Autonomous University of Mexico (UMAM), Oct 27, 2023.

Writing Feminist Geographies from India: On Mapping Feminist Resistances and Solidarities Within the Urban, Annual Speciality Group Meeting, South Asia of the Deutsche Gesellschaft für Geographie (DGFG) Centre for Climate Resilience, University of Augsburg, Germany, Feb 2, 2024.

B W Pandey

Poverty, Health, Geopolitics, and Sustainable Livelihood in Crisis and Recovery, Geographical Dimensions of Sustainability and Recovery: Social, Cultural and Environmental Concerns, Department of Geography, Delhi School of Economics, University of Delhi, Oct 4, 2023.

Climate Change on Livelihood Sustainability of High Altitude Region of Himalaya, Scientific Congress on Environmental Conservation and Management, Department of Geography, Gujarat University, Ahmedabad, Feb 28, 2024.

Netrananda Sahu

Climate Change Impact on Spring Water Discharge in the Himalayas Region, 20th Annual Meeting of the Asia Oceania Geosciences Society, Singapore, Asia Oceania Geosciences Society (AOGS), August 2, 2023.

Pankaj Kumar

Reflections of Climate Change Himalayan Mountain, International Mountain Day Celebrations, IGU Commission on Mountain Studies and Istanbul University, Dec 11, 2023.

National

B W Pandey

Common Property Resources and Livelihood Challenges in Himalayan Geosystem, Faculty Development Programme, Swami Shradhanand College, University of Delhi, March 9, 2024.

Himalayan GeoLab: Investigations of Climate Change and Livelihood Sustainability, Sustainable Development, Department of Geography, GVM Girls College, MD University, Sonipat, March 14, 2024.

Pankaj Kumar

Earth Observation, Climate Change and Disasters in the Higher Himalaya, Geographical Dimensions of Sustainability and Recovery: Social, Cultural and Environmental Concerns Department of Geography, University of Delhi, Oct 3, 2023.

Voices of concern arising from increasing climate change induced Livelihood Vulnerability in the Himalaya, Geography of Polyvocality: The (Un) heard voices in Sustainability, Department of Geography, Dayal Singh College, University of Delhi, April 8, 2023.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 20
M.Phil.: 13

Faculty Strength

Professor: 08
Associate Professor: 02
Assistant Professor: 01
Total: 11

HISTORY

Publications

Research Articles

Scopus

Gupta, C. & Legg, S. (2023). Communal Geographies: An Introduction. South Asia: Journal of South Asian Studies, 46(6), 1168-1183.

Gupta, C. (2023). Disease and the Untouchable: Insights from Vernacular Histories of North India. Studies in People's History, 10(2), 230-245.

Gupta, C. (2023). Self-Fashioning of a Hindu Political Sanyasi: Muscular Asceticism and Sectarian Freedom in Swami Satyadev Parivrajak's Autobiography. Studies in History, 39(2), 172-198.

Jain, S. (2024). Writing History and Jain Literary Production in Early Modern South Asia. Studies in People's History, 11(1), 59-77.

Shah, S. (2023). Men, Masculinism and Masculinities: Ancient Indian Antecedents. Studies in History, 39(2), 239-264.

Shah, S. (2024). Hierarchies of Oppression: Ancient Indian Antecedents of Caste and Gender. Studies in People's History, 23484489241233666.

UGC- Care

Deshpande, A. (2023). Collingwood and Marx Observations on Writing Meaningful History in the age of Fake Narratives'. *Social Scientist India*, 51(5-6).

Jaiswal, R. K., Ruffiner, H. & Vitale, J. (2023). *Drug Use on One Night on Earth in 1929*. Points.

Jain, S. (2023). *Inland Trade in the Mughal Empire*. Oxford Research Encyclopedia of Asian History.

Singh, V. (2024). Ecopolitical Space in a Riverine Landscape of South Asia. *Environmental & Society Portal*, (03).

Singh, V. (2023). Using Data for Sustainability in 19th century. *Geospatial World*, 13(1).

Shah, S. (2023). Gendering Praise and Censure of Authority in Pre-Modern Indic Tradition. *Social Scientist India*, 51(3-4), 21-40.

Shah, S. (2023). Teaching and Researching Feminist History: A Comparative Study of the Classical Greek and Indic Civilizations. *Education India: A Quarterly Refereed Journal of Dialogues on Education*, 12(3), 1-7.

Shah, S. (2023). Gandharva: Love Marriage of Ancient India. *Education India: A Quarterly Refereed Journal of Dialogues on Education*, 114(3), 114-121.

(b) Books/Chapter in Books

Aquil, R. (2023). *Poetic Pleasure, She'r-o Sha'iri*, New Delhi, New Delhi: Bloomsbury, 978-93-94701-26-7, 247-63.

Aquil, R. (2023). *Genocidal Massacres in Medieval India*, Cambridge, Cambridge: Cambridge University Press, 9781108 493536, 547-71.

Dhar, P. P. (ed.). (2023). *The Multivalence of an Epic: Retelling the Rāmāyaṇa in South India and Southeast Asia*. Taylor & Francis

Gupta, C. (2024). *Fragmentary Histories, Subaltern Sexualities and Vernacular Archives*, Oxford, oxford publication, 978-0-19-890078-8, 163-80.

Gupta, C. (2024). *Virangana Women: Dalit Counter-Histories of 1857*, London, London: Routledge, 978-1-032-60904-1, 72-87.

Gupta, C. (2024). *A Vernacular Archive of Sex and Sexuality: Personal Annotations*, New York, Routledge, 978-1-032-24724-3, 90-114.

Pandya, D. P. (2024). *The Border Security Force*, Oxford, Oxford University Press, 978-0-19-889461-2.

Pandey D.P. (2023). *Trans-Oceanic Exchanges: Towards a Connected History of India and Southeast Asia*, Kolkata, Kolkata: Pashim Banga Itihas Samsad, 9788195654468.

Singh, V. (2023). *Transitions in Leisure: Gardens, Hunting and Public Entertainment*, New Delhi, New Delhi: Bloomsbury, 9789394701342.

Tyagi, J. S. (2024). *Sexuality in Traditional South Asian Systems of Thought and Belief*, Cambridge, Cambridge University Press, 2024, 978-1108842099.

Tyagi, J. S. (2023). *Women and Work upto 1300 CE*, School of Social Sciences, Indira Gandhi National Open University, 978-93-5568-990-0.

Research Projects

Charu Gupta, Minor Research Project under Faculty Research Programme of the IoE, University of Delhi, Utopian Freedom in the Vernacular, ₹ 3 Lakh.

Charu Gupta, Public Health, Disease & Contagion: Snapshots of Inclusion/Exclusion from Colonial & Contemporary History, ₹ 15 Lakh.

Yasser Arafath, Perfecting Muslim Women: Gender of Piety, Vernacular Print, and the 'Long Disorder' in South Asia (1800-1900), ₹ 25.7 Lakh.

Conferences Organized

Writing Global History: Perspectives from Global South, Department of History, University of Delhi, March 9, 2024

Seminar/Conference Presentations

International

Bhuvan Jha

Negotiating the impact of colonial modernity: Pandit Malaviya and Swami Shraddhanand, International Conference on Cultures in Transformation: A Subcontinental Experience, Ram Lal Anand College, University of Delhi, March 1, 2024.

Raziuddin Aquil

Women's Roles in Mughal Imperial Household (Gulbadan Begam's Account), Women and the Court: Space, Time and Power, University of Lausanne, Switzerland, Dec 7, 2023.

Ritesh Kumar Jaiswal

Indianisation of Burma!': Ethnonationalism and Xenophobia in the Interwar period 15th International Burma Studies Conference on "Envisioning Myanmar: Crisis, Change, Continuity, University of Zurich, Switzerland, Jun 9, 2023.

Mediated (Im) Mobility The non-indentured systems of Indian migration to Ceylon, Malaya, and Burma, Asia in World History: Indian Ocean Perspectives, Centre for Asia Pacific Initiatives (CAPI), University of Victoria, Canada, Jun 14, 2023.

Global history under the spectre of nationalism, Whose Global History, University of Warwick in Venice, Venice, Italy, Dec 11, 2023.

The World of Non-European Capital in the Indian Ocean: Examining Chettiar Merchant-Bankers Contribution to Global Capitalism, Rethinking the History of Global Capitalism, Rockefeller Center, Harvard University, UFF, Rio de Janeiro and UNESCO Chair on Global and Social Inequalities, March 4, 2024.

Shalin Jain

Community, Connections and Commerce: Jain Merchants in Early Modern South Asia, 3rd International Conference on Indian Business & Economic History, Indian Institute of Management Ahmedabad (IIM-A), India, Sep 8, 2023.

Yasser Arafath

Polyglossic Ships Migration, Oceanic Aspiration, and the Mappilas of Malabar Before the Gulf Diaspora, Public Lecture, Department of South Asia Studies, University of Pennsylvania, Feb 28, 2024.

National

Anirudh Deshpande

Military trials in History- case of the Royal Indian Navy Mutiny, National conference on Preservation, Archival and Judicial History Project, National conference on Preservation, Archival and Judicial History Project, July 16, 2023.

Pre-history of Fascism in Europe, Special Lecture, Dayal Singh College, University of Delhi, March 16, 2024.

What is Military History, Special Lecture, Satyavati College, University of Delhi, Sep 23, 2023.

Thanthai Periyar's Thoughts on Women's Enslavement A Man Ahead of His Time, Professor A. Karunanandan's Periyaril Endowment Lecture- 2023-2024, Department of Indian History, Madras University, Chennai, Tamil Nadu, Jan 8, 2024.

The Idea of India: Historical Transition and Challenges Ahead, National Conference on the Idea of India, Department of History, School of Social Sciences, Moolji Jaitha College, Jalgaon, Maharashtra, April 5, 2023.

Perspectives on Social and Intellectual History, Social science seminar, Pragatik Itihas Sansthan and the Arts, Commerce and Science College, Narayangaon, Pune, Maharashtra, Oct 29, 2023.

Bhuvan Jha

Satyagraha as a living principle: Gandhi and Vinoba, Gandhian Satyagraha for 21st Century, Gandhi Study Circle, Aryabhata College, University of Delhi, April 2, 2024.

Mahamana Malaviya: Articulating Hindu Civilizational Ethos in a modern world, 2nd Refresher Course on 'Indian Knowledge Tradition, Ethics and Human Values, JNU MMTTC, Feb 29, 2024.

NEP-2020 and the Wardha Scheme of Education, Capacity Building Programme for KRPs in Single Major Subject Pattern in History, UGC-MMTTC, JNU in collaboration & Commissionerate of Collegiate Education (CCE) Govt. of Andhra Pradesh, Feb 26, 2024.

Pandit Madan Mohan and Indian nationalism, 40th Refresher Course in History, UGC-Human Resource Development Centre, JNU, Sep 1, 2023.

Charu Gupta

Writing Gendered Histories of Modern India, Alka Rani Memorial Lecture, The History Society, Vivekananda College, University of Delhi, Sep 29, 2023.

Reimagining History: Embodying Gender in Colonial India, National Seminar on 'Gender in Indian History: Constructions, Representations and Reality, Department of History, Motilal Nehru College, University of Delhi & ICHR, Delhi, Oct 24, 2023.

Histories of Masculinities in Modern India, Dr P L Malhotra Lecture, Annual Fest 'Karvaan' of the Time Travellers Society, History Department, College of Vocational Studies, University of Delhi, Feb 15, 2024.

Writing (Un)Popular Sex: Reading a Vernacular Archive of Sexuality, Humanities Conference on 'Archives and Archiving: Politics, Ethics, and Technology, Azim Premji University, Bengaluru, March 14, 2024.

Jaya S. Tyagi

Ancient Indian Sources and Historians' Perspectives: A review, Special Lecture, Department of History, Shyama Prasad Mukherjee College, University of Delhi, Oct 9, 2023.

Re-visiting Ancient Indian Sources and Historical Interpretations, Special Lecture, Department of History, Delhi College of Arts and Commerce, University of Delhi, Oct 10, 2023.

Parul Pandya Dhar

Gateway to Phanigiri: Building Buddhist Landscapes in the Eastern Deccan, Center for Historical Studies, Jawaharlal Nehru University, Oct 22, 2023.

Retelling the Ramayana in Terracotta, Stone and Stucco, Dastan: The History Society, Atma Ram Sanatan Dharm College, University of Delhi, Oct 3, 2023.

Portraying Royalty at Kanaganahalli: Contextual and Comparative Interpretations, IoE Project of the Department of History, University of Hyderabad, Nov 3, 2023.

Politico-Economic Formations and Buddhist Networks in Early Historic Deccan: Special Focus on Kanaganahalli, Special Lecture, Department of History, University of Hyderabad, Dec 7, 2023.

Prabhu P. Mohapatra

Conference on Preservation and Archival and Judicial History Project, National conference on Preservation, Archival and Judicial History Project, Orissa High court, July 16, 2023.

Aporias of the Archives: The career of the Master Servant Law in India, Aporias of the Archives: The career of the Master Servant Law in India, Orissa High court, May 10, 2023.

Global History and Decolonization, Writing Global History: Perspectives from Global South, Department of History, University of Delhi, March 8, 2024.

Congress, League and Partition of India, Public Lecture, Shaheed Bhagat Singh College, University of Delhi, Sep 24, 2023.

Ritesh Kumar Jaiswal

Doubly Shadowed: The Kangany and Maistry Systems of Indian Migration to Ceylon, Malaya, and Burma, Concealing Agents: Intentional Processes of Invisibilization in Modern Asian History, ENS de Lyon, France, April 27, 2023.

Challenges and Possibilities of doing Global history, Global History as Practice, Warwick University, Delhi, April 4, 2023.

Migrant, Material and Mobility: Repercussions of The Great Depression and Rising Ethnonationalism on the Indian migrants in Malaya, Writing Global History: Perspectives from Global South, Department of History, University of Delhi, March 8, 2024.

Santosh Kumar Rai

Relevance of Mahatma Gandhi in His and Our Times Refresher Course in Medieval and Modern History, UGC-Human Resource Development Centre (HRDC)-Lucknow University, Lucknow, Oct 17, 2023.

Shalin Jain

The Mughals and the Jain Sources, Refresher Course in History, The Malviya Mission Teacher training Centre (MMTTC), Maulana Azad National Urdu University, Hyderabad, India, Oct 3, 2023.

Vipul Singh

Islands, Anthropocene and Decoloniality, River Island: Defining the Anthropocene Conference, Ashoka university, Oct 16, 2023.

New Approaches in History: Climate Anomalies and the Seventeenth Century, Capacity Building Programme for KRPs in Single Major Subject Pattern in History, MMTTC, JNU, Feb 23, 2024.

Yasser Arafath

Culture and Politics of Clothing in India, Public Lecture, Department of History, University of Hyderabad, April 18, 2023.

The Asian Origins of Global Capitalism, Roundtable Discussions, the CAPACIA (European University Institute) and KCHR (Trivandrum) Research Meet CAPACIA (European University Institute) and KCHR (Trivandrum) Trivandrum, July 7, 2023.

National/International MoUs Signed: 01

Ruhr-Universitat- Shared research on history of medieval and early modern Jaina manuscripts June 2021- June 2023 Harvard University- Research and pedagogy on subjects related to global history. Sep 3, 2023

Students under Exchange Programme

M.A. Students: 03

Ph.D. Students: 03

Placement Details: 32

Extension and Outreach Activities

Students were taken for field trips to various field trips to sites.

Sajjan Kumar took the students to multiple Harrappan Valley Civilizations sites in Rakhigari and Kunal, Haryana.

Parul Pandya Dhar took a trip National Museum, New Delhi.

Aparna Balachandran took a trip to National Archives 4- Bhuwan Kumar Jha took a trip to Rashtrapati Bhawan Museum, New Delhi.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 13

M. Phil.: 16

Faculty Strength

Professor:	14
Associate Professor:	04
Assistant Professor:	09
Total:	27

Other Significant Information

Yasser Arafath, joined as a Fulbright Research Scholar in the Department of South Asia Studies at the University of Pennsylvania on September 11, 2023.

Shalini Shah, Sectional President Ancient India at 82nd Session of Indian History Congress, Warangal, 28-30 December, 2023.

POLITICAL SCIENCE

Major Activities and Achievements

Department organized International Conference on “India’s Culture based Foreign Policy in South and Southeast Asia”, 11-12 March, 2024.

Publications

Books/Chapter in Books

Agarwal, S. (2023). Local Self Government. In Mithilesh Kumar Jha & Kamal Nayan Choubey (ed.) Indian Politics and Political Processes Ideas: Institutions and Practices, *India*, Routledge, 9781032499833, 387-406.

Banerjee. M. (2023). The Herbal Sutra, *Delhi*, Roli Books.

Choudhary, A. (2023). Poverty and Inequality in a Globalising World. In Nirmal Jindal & Kamal Kumar (eds.) Understanding Globalisation: Challenges and Prospects. *Delhi*, Routledge, 9781032499857.

Choudhary, A. (2023). राज्य (Rajya/State). In Sanjeev Kumar (ed.) राजनीति सिद्धांत: अवधारणाएं और विमर्श, *Delhi*, Orient Blackswan, 9789354425219.

Choudhary, A. (2023). Global Justice. In Ali Farazmand (ed.) Global Encyclopedia of Public Administration, Public Policy, and Governance, *Delhi*, Springer, 978-3-030-66251.

Saxena, R. & co-author (2023). Indian National Congress: From Dominance to Decline or Hibernation?, *India*, Routledge, 978-0-367-67448-9.

Research Projects

Preeti Sharma & Radha Agrawal- The Pradhan Mantri Ujjwala Yojana: A study of select districts of Gujarat, Rajasthan and Delhi. ICSSR, ₹ 13 Lakh.

Conferences Organized

India's Culture- based Foreign Policy in South and Southeast Asia. Speakers: Prof. Yogesh Singh, Vice Chancellor, University of Delhi, Sh. Vinay Sahasrabhuddhe, President, ICCR, Prof. Sawarn Singh, JNU, Prof. Satish Kumar, IGNOU, 11-12 March, 2024.

Empowering Youth with Constitutional Values Fundamental Duties. Speakers: Sh. Rajendra Agrawal, Member of Parliament, Dr. Babita Singh, Joint Director, Lok Sabha Secretariat., collaboration with ICPS, October 4, 2023.

Kashmir after the Abrogation of Article 370. Speaker: Mr. P. K. Mishra , Director General (Retd.), March 14, 2023.

Subaltern Hindutva vs. Mandal 2.0. Dr. Sajjan Kumar, Jawaharlal Nehru University, PhD, Centre for Political Studies, Oct 11, 2023.

Seminar/Conference Presentations

International

Abhishek Choudhary

Emancipation as Security, Dignity as Emancipation, Annual Millennium Symposium on Remapping the Critical: Imagining Anti-Hierarchical Futures in International Studies, The Centre Building, London School of Economics and Political Science (LSE), London, United Kingdom, October 19, 2023

Expanding the boundaries of International Relations: Alternate Narratives and Homegrown Theorizing, The politics of knowledge production in IR, Spaces of Influence, Spaces of Inclusion - Challenging Boundaries in the Context of Unbounded Challenges, The International Studies Association (ISA) 2023 (Virtual), August 1, 2023.

Rekha Saxena

Federalism, Devolution of Power, and Inclusive Democracy In Nepal And Asia, Federalism, Devolution of Power, and Inclusive Democracy In Nepal And Asia, Kathmandu, Nepal, November 22, 2023.

Robert Duhlian

India's Engagement in International Climate Politics: Continuity and Change, International Studies Association – Asia Pacific Conference, 2024, Waseda University, Tokyo, Japan, August 9, 2023.

India's Climate Security Dilemma: Challenges and Possible Futures. Climate Change and Indo-Pacific, Institute for Future Engineering at the University of Tokyo, August 8, 2023.

Robert Mizo

India at the UNFCCC – Contributions and Intervention, ISA Global South Caucus 2023 Conference: Thammasat University in Bangkok, Thailand, December 18, 2023

National

Deepika Singh

Revisiting Sixth schedule of the Indian constitution in the context of Governance, Contextualising Constitution of India: Past, present and Future "Organised by The Department of Political Science, Central University of Andhra Pradesh, ICSSR, & SRC Hyderabad, November 15, 2023.

Madhulika Banerjee

Policy and Political Economy of Knowledge Traditions in the context of Modernity, Transdisciplinary University Bangalore (online), November 23, 2023.

Network for Science, Technology and Society Studies, 'Pathways of STS: Where we come from and where we [can] go', Indian Institute of Technology, Hyderabad, December 14, 2023.

Integrating Climate Change and Sustainability in Higher Education, Integrating Climate Change and Sustainability in Higher Education, held Azim Premji University, Bangalore, January 9, 2024.

Rekha Saxena

Canadian Utsav , Key-Note address on the occasion of Indo-Canadian Utsav organized , Zakir Husain Delhi College, Nov 30, 2023.

Understanding Electoral Management Studies, Understanding Electoral Management Studies, IIIDEM, Delhi, January 15, 2024.

Federal Structure of the Indian Constitution, Federal Structure of the Indian Constitution, P.G.D.A.V. College, University of Delhi, January 24, 2024.

Ujjwal Kumar Singh

Valedictory address delivered in 4th All India Legal History Congress: Interdisciplinary Paradigms in Studies in Legal History organized, 4th All India Legal History Congress: Interdisciplinary Paradigms in Studies in Legal History organized by University School of Law and Legal Studies, Guru Gobind Singh Indraprastha University, All India Association of Legal History, Centre for Studies in Legal History, NUJS, NRC-ICSSR, Indian Council of Social Science Research, New Delhi, December 8, 2023.

Ethical Concerns in Social Science Research, Capacity Building Programme for Social Science Faculty Members, M. P. Institute of Social Science Research, Ujjain, Madhya Pradesh, December 19, 2023.

National/International MoUs Signed: 01

Other Inter-Institutional Collaboration: 01

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 16

M.Phil.: 15

Faculty Strength

Professor:	12
Associate Professor:	00
Assistant Professor:	16
Total:	28

SOCIOLOGY

Major Activities and Achievements

A major achievement of the department in this year is The Department is ranked 91 of Sociology in the QS World University rankings released in 2023.

Publications

Research Articles

Scopus

Gautam, D. D. (2023). Two Models of Social Justice: Ambedkar's Constitutional Equality and Deendayal Upadhyaya's Antyodaya, *Ianna Journal of Interdisciplinary Research*, 2735-9891, 5(2), 195-211.

Books/Chapter in Books

Janaki, Abraham (2023). Caste and Kinship, In Surinder Jodhka & Jules N. (ed.) The Oxford Handbook of Caste, India, Oxford , 9780198896715 , 145- 165.

Seminars Organized

The promise of Global Social Theory: The contributions of anti-colonial perspectives. Speaker: Prof. Sujata Patel (retd.), Retd Professor University of Hyderabad, Department of Sociology, Delhi University, March 8, 2024.

Past lives, Precision Medicine and Epigenetics: Toward an Epistemic Democracy. Speaker: Prof. Harish Naraindas, Professor CSSS/ JNU, Department of Sociology, Delhi University, Feb 23, 2024.

The Ethnographic Object: A Composite at Play. Speaker: Dr. Subhasham Goswami, Assistant Professor School of Humanities and Social Sciences, Shiv Nadar University, Department of Sociology, Delhi, Feb 16, 2024.

Understanding Migrant Journeys: Field Notes from Railway Travels. Speaker: Dr. Ishita Dey, , Assistant Professor, Department of Sociology, South Asian University, Department of Sociology, Feb 9, 2024.

Power/Knowledge In India: The Case of Anthropology-Sociology as a Discipline. Speaker: Prof. Irfan Ahmad, , Department of Sociology, Ibn Haldun University, Istanbul, Türkiye, Department of Sociology, Feb 2, 2024.

Unfamiliar Sources of Sociological Data: Diaries of N.K. Bose and D.P. Mukerji. Speaker: Prof. Abhijit Dasgupta (Retd.) , Department of Sociology, DSE, University of Delhi , Department of Sociology, Dec 22, 2023.

Academic Labour, Theory Making and Surrendering the Right to be Critical in Neo-Liberal Capitalism. Speaker: Prof. Ravi Kumar, , Department of Sociology, South Asian University , Department of Sociology, Dec 15, 2023.

Devta and Development in Himachal Pradesh: Rurality, agrarian identity and reinvention of community. Speaker: Prof. Sudha Vasan, Professor, Department of Sociology, Delhi School of Economics, University of Delhi, Department of Sociology, Dec 8, 2023.

The Postcolonial Citizen of NEP 2020. Speaker: Dr. Manish Jain, , Associate Professor, School of Education Studies, Dr. B R Ambedkar University, Delhi , Department of Sociology, Dec 1, 2023.

Mandi Acts and Farm Laws: Making Sense of Regulatory Life in India's Agricultural Markets. Speaker: Prof. Mekhala Krishnamurty, Ashoka University, Department of Sociology, Nov 24, 2023.

The Superhero Image and Ravana Mythology. Speaker: Prof. Roma Chatterji, (Retd.) , Department of Sociology, Delhi School of Economics, University of Delhi. , Department of Sociology, Nov 10, 2023.

Beyond Masters: Women's Shifting Roles in Nepal's New Neoliberal Garment Industry. Speaker: Dr. Mallika Shakya, , Assistant Professor, Department of Sociology, South Asian University, New Delhi , Nov 3, 2023.

Fieldworkers, Interlocutors and Others: Thinking through the Limits of Ethnography. Speaker: Prof. Hanna Kim, , Professor of Anthropology, Adelphi University, New York, USA, Oct 27, 2023.

An ethnographic reading of a contemporary South African novel: land struggles, racism and scattered ontologies. Speaker: Prof. Antonadia Borges, Professor, Federal Rural University of Rio de Janeiro, Brazil, Oct 13, 2023

Seminar/Conference Presentations

International

Anuja Agrawal

Dissent with Love: Ambiguity, Affect, and Transformations in South Asia, St Edmund's College, University of Cambridge (Hybrid Workshop), UK, Jun 15, 2023.

Charu Sawhney

Mothering during Covid 19 Pandemic, 19th IUAES- WAU World Anthropology Congress 2023, Department of Anthropology, University of Delhi, Oct 16, 2023.

Sudha Vasan

Region as a Methodological Gateway. Plenary lecture at International Conference on 'Towards a New Sociology of India: Region, History and Possibilities, Mid-term ISS International Conference on Sociology Of and In Regions: Pedagogy, Practices and Possibilities, Department of Sociology, Lucknow University, Lucknow, April 16, 2023.

National

Anuja Agrawal

DNT Communities: The 'woman question, Refresher Course on "Indian Women: Issues and Challenges, HRDC, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh, Nov 6, 2023.

Chhavi Sharma

Unpacking 'innovation': Interlinkages of finance, technology and a new vocabulary, Urban Topologies of the Digital, Centre for the Study of Developing Societies(CSDS), March 20, 2024.

Devi Dayal Gautam

Revisiting Sociology: Text, Context & Pedagogy, Govind Ballabh Pant Social Science Institute, Allahabad, Jan 19, 2024.

Janaki Abraham

Sexual Harassment in the Work place, Commemoration of the 'International Day for the Elimination of Violence against Women 2023, Centre for Women's Development Studies and The Advance Centre for Women's Studies, AMU, Aligarh, Dec 2, 2023.

From kanyadaan to kumkumam: Caste reform, camera men and the making of wedding rituals in North Kerala, CSSS/SSS, Jawaharlal Nehru University, Delhi, Nov 30, 2023.

Different Neighbourhoods, Different mahauls, Neighbourhood, ontological marginalities and epistemological uncertainties: southern ethnographies in a comparative, Department of Anthropology, University of Delhi, Oct 17, 2023.

25 years since the Vishakha guidelines: some reflections, Indian Association for Women's Studies, Thiruvananthapuram, Kerala, Sep 9, 2023.

Thinking Sociologically: An introductory, Kamla Nehru College, University of Delhi, Sep 5, 2023.

Nupurnima Yadav

Ethnography and Research, Janki Devi Memorial College, University of Delhi, Oct 11, 2023.

Sudha Vasan

Devta and Development in Himachal Pradesh: Rurality, agrarian identity and reinvention of community, Research Colloquium Department of Sociology, Delhi School of Economics, University of Delhi, Dec 8, 2023.

The Sociological Imagination and Climate Change, Lady Shri Ram College for Women, University of Delhi, Sep 23, 2023.

Climate, Capital and the Sociological Imagination, Jesus and Mary College, University of Delhi, Oct 10, 2023.

Devta and Deodar. Socio-ecological Transformation in the Western Himalaya, Indian Institute of Technology, Mandi, Himachal Pradesh, April 3, 2023.

Other Inter-Institutional Collaboration

A Round table Discussion on Graduate Research in India was organized in the Department, jointly with Sociology departments of Ashoka University and Shiv Nadar University, October 20, 2023.

Placement Details

One Ph.D. student placed as post-doc

Extension and Outreach Activities

Research Scholars Workshop was organized on 23rd February 2024.

Academic Writing workshop was organized for RSG, Research Scholar Group with

a. Passing/Concealing - Sachin Sourabh, Centre of Modern Indian Studies, 9th February, 2024.

b. Ethnographic Writing - Prof. Rajni Paliriwala on 26th February 2024

c. Academic Publication - Prof. Sudha Vasan on 18th March 2024.

Two days hands-on training workshop on Statistical Analysis in Social Sciences conducted by STATCRAFT was organized in the Department on 8th and 9th November 2023.

A Career Discussion session on Humanities, liberal arts and bridging the opportunity gap: a journey in North -East India, conducted by Worrin Muivah, Founder Step Academy North-East was organized on 30th November 2023..

Sharma, Chhavi. Pushed to the Edge: The ‘Entrepreneurial’ Worker of the Present” Outlook. 15th May, 2023. (Online Publication).

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 11

M.Phil.: 11

Faculty Strength

Professor: 04

Associate Professor: 01

Assistant Professor: 08

Total: 13

Other Significant Information

Devi Dayal Gautam (Project Director) ICSSR Short term Empirical Research Project: Empowering emerging entrepreneurs: A case study of stand-up in India in Delhi, Uttar Pradesh and Bihar.

SOCIAL WORK

Major Activities and Achievements

In India Today and Outlook-ICARE 2023, the Department has been ranked at 3rd position in the year 2023-24 amongst best colleges/Departments of Social Work all over India.

Honours/Distinctions

Faculty

Sanjoy Roy - Awarded with Dr B R Ambedkar National Award 2023 for outstanding performance in the field of Social Work by Dr. B R Ambedkar Sports Foundation (Organization in Special Consultative Status with United Nations' Economic and Social Council) at Indira Gandhi Sports Complex, New Delhi, India.

Sanjoy Roy- Awarded with Excellence Awards for Teachers in Service in Departments/Institutions Age 45 years and Below, University of Delhi, 2023 at the 100 years of University Centenary Award Ceremony.

Publications

Research Articles

Scopus

Anand, M. (2023). Social Work in the Post pandemic World: Reflections from India. *Social Work*, 68(4), 353-356.

Maske, S., Thomas, N.T. & Majeed, B. I. (2022). Revitalizing Indian Democracy: Addressing Critical Issues and Concerns of Civic Literacy and Political Participation. *RES MILITARIS*, 12(6), 2718-2730.

Yumnam, V. (2024). Manipur's Journey Towards the Health SDGs: What's Achieved and what more is Needed? *Indian Journal of Community Medicine*, 49(1), 18-21.

UGC-Care

Agnimitra, N. (2023). Green Social Work: Imperatives for environmental justice in Social Work education and practice. *Journal of Social Work & Social Development (JSWSD)*, 14(1), 1-22.

Pandey, N. & Pandey, V. K. (2022). The Degrading Images of 'W' as Colloquial and Commercial in Bollywood item Songs. *Research Journal (Arts)*, 49(1), 95-112.

Thomas, N.T., Yumnam, V. & Maske, S. (2024). Collaborative Efforts between Schools and Homes: Study of Delhi amidst Covid-19 Pandemic. *Third Concept*, 38(445), 38-41.

Thomas, N.T. & Stepen, P. (2022). Contested indigenous law: A case study of Poumai Naga society. *Wesleyan Journal of Research*, 15(8).

Thomas, N.T. (2022). Concerning Manipur Hill Areas Democratic Aspirations. *NIU International Journal of Human Rights*, 146-156.

Thomas, N.T. & Roy, S. (2023). Promoting Health Equity through Social Work Education in India: Preparing Students to Address Disparities. *Journal of Social Work and Social Development*, 14(2), 109-122.

Books/Chapter in Books

Anand, M. & Co-author. (2024). Homelessness in India: A state legislative and civil society perspective. In B. Chris (Eds.) *The Routledge handbook of global perspectives on homelessness, Law & policy in India: A state legislative and civil society perspective*, New York, Rutledge, 978-1032227009.

Anand, M. (2024). Inclusion and well-being of children with DSD: Challenges and strategies. In Simmi K. Ratan (Eds.) *Children with disorders of sex development: Taking a multidisciplinary management approach*, Singapore, Springer Nature, 978-981-97-1638-8.

Guite N. & Thomas N.T. (2023). Tribal local self-governance: a study of Kuki village council in Churachandpur district, Manipur, Assam, National Law University and Judicial Academy, 978-81-954276-5-9, 149-175.

Harrikari, T., Mooney, J., Adusumalli, M., McFadden, P. & Leppiaho T. (Eds). (2023). Social Work during COVID-19: Glocal perspectives and implications for the future of Social Work, London, Routledge, 9781032215396, 278.

Kaushik, A. (2024). Migration and old age: Examining intersecting vulnerabilities and concerns, In S.I. Rajan (Ed.) Handbook of Ageing: health and public policy, Switzerland, Springer Nature, 978-981-16-1914-4, 1-25.

Kumar, S. (Eds.) Structural and institutional dimensions of sustainable development goals (SDG) in India: A narrative, Tamil Nadu, The Department of Economics, 978-81-954992-2-9, 518-522.

Lyngdoh, J. & Adusumalli, M. (2023). Locating aging in India: Indigenous perspectives of the Khasis and Jad Bhotiyas. Jordan P. Lewis and Tuula Heinonen (Eds.) Social aspects of aging in indigenous communities, OXFORD, Oxford University Press, 978-0197677216, 76-104.

Menon, G. & Kaushik, A. (2023). Children bloom and wither: reflections on child marriage practices in India, Coimbatore, The Department of Economics (SF) (Ed.), PSG, College of Arts and Science, 978-81-954992-2-9, 121-125.

Menon, G. & Kaushik, A. (2023), Consent: A tool to protect human rights. In X. Joseph, G. Alan and Shujayathulla (Eds.), Social inclusion, democracy and human rights, Bengaluru, ISI Bangalore, 15-23.

Pandey, N. & Noorainganakam, S. (2023). Prison systems in G20 countries, Delhi, Ane Books Pvt Ltd, 191-210.

Sharma, S. (2023). Locating National Human Rights Commission within the Human Rights Discourse at the Grassroots in Rural India, Japan, Asia-Pacific Human Rights Information Center, 265-296.

Thomas N.T. (2022). COVID-19: The plight of Indian migrant workers. In Sudeshna Saha (ed.) Pathos of pandemic: COVID-19, New Delhi, New Delhi Publisher, 978-93-938-7800-7.

Research Projects

A Malathi- Baseline Survey and Need Assessment of Project affected villages of Khurja Super Thermal Power Corporation, (Block Arnia, Tehsil Khurja, Distt. Bulandshahr, Uttar Pradesh, ₹ 6.8 Lakh.

Archana Kaushik- Mid-term review of Project Saksham: Towards Health, Well-being and Digital Access to Elderly, ₹ 1 Lakh.

Meenu Anand- Research Study on Flourishing or languishing? An assessment of the mental health of students at the University of Delhi, ₹ 2.8 Lakh.

Meenu Anand- Research Study on Mental Health and Well-Being of Students in University of Delhi: Challenges and Opportunities' University of Delhi, ₹ 2.6 Lakh.

Sanjoy Roy- ICSSR Project on Prospering Girls in a Gender Focus Development Agenda: A Multi-dimensional Study of the Sukanya Samriddhi Yojana in Four States of India, ₹ 18 Lakh.

Sudhir K Maske- Sanjoy Roy and N.T. Thomas- ICSSR Project on Empowering Social Work Practitioners, Enhancing Skills and Competencies to Bring Positive Social Change: An Action Research Study, ₹ 18 Lakh.

Seminars Organized

Govt. of India, Department of Social, Justice and Empowerment, Self-Financed, 'Social Audit Training Programme' in collaboration with North Michigan University, USA, March 4, 2024.

Numerical Analytics Instruments Private Limited. staff, Numerical Analytics Instruments Private Limited. , University of Delhi, an NVivo Workshop for the PhD research scholars of the Department of Social Work on 04.01.2024 in collaboration with DUCC and Numerical Analytics Instruments Private Limited, Jan 4, 2024.

UGC-Human Resource Development Centre (CPDHE) , CPDHE identified resource person, UGC, "Social Work and Social Sciences (IDC) on the theme 'Indigenisation and Emancipatory Approaches to Social Work and Social Sciences: Indic Perspective' at Department of Social Work, in Collaboration with Centre for Professional Development in Higher Education UGC-Human Resource Development Centre (CPDHE), September 4, 2023.

Seminar/Conference Presentations

International

A. Malathi

Spaces for Indigenous Knowledge: Examining participatory conceptual approach and practices in Khasi community, University of Gavle, Sweden (online), August 23, 2023.

Abhishek Thakur

Perception of Marriage and Parenting among Persons with Disabilities in India, 2nd International Conference on Social Work Intervention in the Community Empowerment for Socio-Economic, National Institute of Social Development, Ministry of Women, Child Affairs and Social Empowerment) and Sri Lanka, Oct 12, 2023.

The Gendered Experiences of Marriage Among Women with Disabilities in Sri Lanka, On Gender Perspectives and Representations: Breaking Barriers and Building Bridges, VIT-AP School of Social Sciences & Humanities (VISH), Amaravathi, Andhra Pradesh, Jun 20, 2023.

The Gendered Experiences of Marriage Among Women with Disabilities in Sri Lanka, Gender Perspectives and Representations: Breaking Barriers and Building Bridges (Virtual), VIT-AP School of Social Sciences & Humanities (VISH), Amaravathi, Andhra Pradesh, Jun 20, 2023.

Meenu Anand

Expounding gender and mental health: The feminist psychosocial perspective, 2nd International conference on Addiction and Psychiatry, Scisynopsis and American Psychological Association (Online), 20th November, 2023 at London, UK, Oct 20, 2023.

Neena Pandey

Social Work with Women Prisoners, 5th International Expanding Contours of Criminology and; Criminalistics, National Forensic Science University, Gandhinagar, Jan 23, 2024.

N.T. Thomas

Building Bridges to Empowerment: Tribal Knowledge as a Tool for Effective Social Work Practice, Indian International Social Work Congress 2023, Indian International Social Work Congress 2023, Feb 22, 2024.

Sanjoy Roy

The Human-Digitization of International Social Work: Reconnoitring Social Work as a Human Rights Profession in India, 29th DGfE Congress 2024, Martin Luther University Halle-Wittenberg, Halle, Germany, March 10, 2024.

Social Work in Promoting Diversity and Inclusivity for Transformational Change, 15th Eurasia Forum of Social Workers 20-22nd March, 2024 at the Learning and Training Center on Older Persons, Pattaya City, Chonburi Province, Thailand, March 20, 2024.

National

Meenu Anand

From invisibility to empowerment: Advancing the rights of women in tea plantations for sustainable development, Structural and institutional dimensions of Sustainable Development Goals (SDGS) in India: A narrative, PSG College of Arts and College, Coimbatore (Online), August 4, 2023.

Neena Pandey

Educating Incarcerated person: Usage of Readability as a Pedagogical Tool, Workshop on Hybrid Library Resources and Readability: Challenges and Opportunities, Aditi Mahavidyalaya, University of Delhi, & Katha Manch, March 20, 2024.

Outreach and attempt to work with youth aspirations, National Conference on Social Responsibilities of Educational Institutions in the context of NEP 2020, Centre for Extension and Field Outreach Delhi Technological University, AICTE, AIU and Unnat Bharat Abhiyan, Delhi, Jan 23, 2024.

Social Work with Prisoners: Exploring Avenues of Engagement Through Empowering Process, National Association for Professional Social Workers in India (NAPSWI) and Department of Social Work, Maulana Azad National Urdu University, Hyderabad, Nov 5, 2023.

Community and Community Practice in Contemporary Times: Dialectics and Responses, XI Indian Social Work Congress (ISWC), Department of Social Work, Maulana Azad National Urdu University, Hyderabad, Nov 5, 2023.

N.T. Thomas

Conservation Practices and the Integration of Traditional Ecological Knowledge among the Nagas, National Seminar on Musings on Indigeneity, Social Institute, New Delhi, Dec 14, 2023.

A Study of India's First Model Carbon Positive Eco-Village in Phayeng, Manipur: Implications for Pastoralists, National Conference on Ecological Disruption and Pastoralism: Indigenous Knowledge in Ecological Restoration, Department of Social Work, Central University of Rajasthan, Feb 9, 2023.

Pushpanjali Jha

Theorizing Social Work Knowledge for Social Work Education and Practice in India: Multiple Epistemologies and Diverse Arenas of Practice, Social Work Congress, Maulana Azad National Urdu University, Hyderabad, Nov 5, 2023.

Seema Sharma

Corporate Social Responsibility and Social Development: Possibilities, Contentions, and Implications for Teaching- Learning, National Association for Professional Social Workers in India (NAPSWI) and Department of Social Work, Maulana Azad National Urdu University, Hyderabad, Nov 5, 2023.

Shashi Rani Dev

Emerging Issues in Commerce, Management, Economics, Social Sciences and Languages, Lathe Education Society's Nemgonda Dada Patil College of Arts and Commerce, Sangli, Maharashtra, May 27, 2023.

Rise of digital education and E- learning: An assessment of inclusive and equitable education, Rise of digital education and E- learning: An assessment of inclusive and equitable education, UGC-HRDC, Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur Kalan, Sonipat, Oct 7, 2023.

Crime against Women and Silent Suffering - A Critical Assessment of State of Women Empowerment, Women Empowerment and Sustainable development Goals, BPSMV, Sonipat Haryana, Feb 27, 2024.

Sudhir Keshav

Anti-Caste Social Work Theory and Its Framework: Locating Dalit/Subaltern Literary Perspectives in Social Work Teaching-Learning Pedagogy, XIth Indian Social Work Congress, Department of Social Work, MANUU, Hyderabad in collaboration & NAPSWI, New Delhi, April 4, 2023.

Placement Details

Students Placed: 23

Extension and Outreach Activities

During this year 2 different outreach initiatives were undertaken by the Department. In the year 2023-24 the focus of CCAW was on cognitive development of children and to achieve these various activities were conducted for CIE school children, Indira Basti Timarpur open community Children and special children of Masoom School, Timarpur. CCDA presently works in Burari, Timarpur, Chandrawal Village and Indira Vikas Basti, Outram line. It has initiated career guidance programs for community youth particularly focusing on 10th & 12th standard children. It also arranged scholarships for needy students of the department through networking. Number of

M.Phil./Ph.D. Degrees Awarded

Ph.D.: 15

Faculty Strength

Professor:	05
Associate Professor:	04
Assistant Professor:	15
Total:	24

ACADEMIC CENTRES

AGRICULTURAL ECONOMICS RESEARCH CENTRE

Brief History of the Centre

Agricultural Economics Research Centre (AERC), Delhi, was established on 8 February, 1954 vide DO No.F.2-3/52-P.C.11 as a section of the Department of Economics, Delhi School of Economics, University of Delhi. AERC has been functioning as an independent Centre since 1960 and moved to its present building in 1961. The Centre was integrated with University of Delhi in 1987 vide ordinance XX-G of University of Delhi and has since functioned as a maintained institution of the University.

Major Activities and Achievements

AERC, Delhi continued to perform the research and policy activities during the financial year 2023-24. There had been contributions in the form of ongoing regular research projects as well as concurrent feedback surveys on various agricultural schemes of the Ministry of Agriculture and Farmers' Welfare, along with journal articles, presentations in conferences, workshops on research methodology and capacity building and inputs to various committees by the faculty.

The centre continued progressing under the able guidance of Prof. Ram Singh, Chairperson of the Centre and Prof. Param Jit, Director (Acting) of the Centre. Prof. Singh and Prof. Jit, both, were the senior faculties at the Delhi School of Economics, University of Delhi. The centre was also able to organize the lecture by Prof. Ramesh Chand, NITI Aayog and Chairman of the Institute of Economic Growth, in collaboration with Delhi School of Economics during the end of financial year 2023-24.

Publications

Scopus Indexed Journals

Aggarwal, N., Shukla, U., Saxena, G. J., Rawat, M., Bafila, A. S., Singh, S., & Pundir, A. (2023). Mean based relief: An improved feature selection method based on ReliefF. *Applied Intelligence*, 53(19), 23004-23028.

Birwal, A., Patel, K., & Singh, S. (2024). Circular Slot-Based Microstrip Circularly Polarized Antenna for 2.45 GHz RFID Reader Applications. *IEEE Journal of Radio Frequency Identification*.

Gandhi, S., Bhushan, A., Shukla, U., Pundir, A., Singh, S., & Srivastava, T. (2023). Downregulation of lncRNA SNHG1 in hypoxia and stem cells is associated with poor disease prognosis in gliomas. *Cell Cycle*, 22(9), 1135-1153.

Jain, S., Pundir, A., Singh, S., & Saxena, G. J. (2024). Navigating the face recognition: unleashing the power of few-shot learning through metric-based insights. *Multimedia Tools and Applications*, 1-23.

Rawat, M., Bafila, A. S., Kumar, S., Kumar, M., Pundir, A., & Singh, S. (2023). A new encryption model for multimedia content using two-dimensional Brownian motion and coupled map lattice. *Multimedia Tools and Applications*, 82(28), 43421-43453.

Thushari, P. D., Aggarwal, N., Vajrobal, V., Saxena, G. J., Singh, S., & Pundir, A. (2023). Identifying discernible indications of psychological well-being using ML: explainable AI in reddit social media interactions. *Social Network Analysis and Mining*, 13(1), 141.

Vajrobal, V., Aggarwal, N., Shukla, U., Saxena, G. J., Singh, S., & Pundir, A. (2023). Explainable cross-lingual depression identification based on multi-head attention networks in Thai context. *International Journal of Information Technology*, 1-16.

UGC Care-list Indexed Journals

Areef, M., Dutt, H., Bhatt, Y., & Sharma, R. (2023). Volatility spillovers and structural breaks: A case of onion in India. *Indian Journal of Agricultural Marketing*, 37(2), 34-47.

Bhatt, Y., & Jit, P. (2022). Estimating and Bridging the Yield Gaps in Oilseeds for Atma Nirbhar Bharat.

Bhatt, Y., Tiwari, P., Negi, N., Banerjee, J., (2023), Educational, Work and Agricultural Status of Women in Uttarakhand , 42 , 24-29.

Research Projects

Ministry of Agriculture and Farmers Welfare, Concurrent Feedback/Impact Assessment of Pradhan Mantri Krishi Samman Nidhi (PM-KISAN) Schemes. Sanctioned amount of Rs. 7 Lakhs. PI: Param Jit and Yogesh Bhatt.

Ministry of Agriculture and Farmers Welfare, Concurrent Feedback/Impact Assessment of Food Security Mission (NFSM) Schemes. Sanctioned amount: Not Received Yet. PI: Param Jit and Yogesh Bhatt.

Ministry of Agriculture and Farmers Welfare, Pradhan Mantri Kisan Samman Nidhi (PM KISAN): Performance, problems and prospects, Sanctioned amount: Regular Salary grant. PI: Param Jit and Yogesh Bhatt.

Ministry of Agriculture and Farmers Welfare, An Assessment of Kisan Credit Cards (KCC) with special reference to Animal Husbandry and Fishery Sectors in India. Sanctioned amount: Regular Salary grant. PI: Param Jit and Yogesh Bhatt.

Seminars Organized by the Centre

Seminar entitled “Role of Agriculture in India's Growth Story: Past and Future” by Ramesh Chand, Member, Niti Aayog, Government of India in collaboration with Ministry of Agriculture and Farmers Welfare on February 27, 2024.

Seminars Organized by the Faculty

Yogesh Bhatt

Delivered a lecture in workshop on “Finalization of Methodology and Questionnaire of the studies finalized in RAC for the work plan 2023-24” by JNKVV Jabalpur on February 15, 2024.

Along with Param Jit delivered a lecture on “Edible Oilseed’s Yield Across Indian Regions: Variations, Farmer’s perceptions and potential alternatives” in 3rd National Conference of Agro-Economics Research Network organized by Institute of Economics and Social Changes, Bengaluru on January 23, 2024.

Delivered a lecture on “Capacity building of AERC Network” in a workshop on Agro-Economic Research Capacity Building organized by Indian Institute of Management (IIM), Ahmedabad on January 4, 2024.

Delivered a lecture on “Sampling Design and Questionnaire for National Food Security Mission (NFSM) Scheme” organized by Institute of Economics and Social Changes, Bengaluru on September 12, 2023.

Faculty Strength

Professor: 1, Assistant Professor: 1

CENTRE FOR DETECTOR & RELATED SOFTWARE TECHNOLOGY

Brief History of the Centre

Centre was founded in the 1990s to strengthen and advance the detector development and related software technologies in the field of experimental high energy physics.

Major Activities and Achievements

The notable contributions from the DU includes the certification of silicon sensors at the DU's Sensor Qualification Centre, which will be placed in the upgraded CMS Experiment at CERN, Switzerland. The participation in the ongoing CMS Experiment for physics analysis, detector maintenance, and detector operation has been continuing in 2023-24 as well.

Publications

Scopus Indexed Journals

A. Hayrapetyan, K.Ranjan, (2023) , Search for a high-mass dimuon resonance produced in association with b quark jets at $\sqrt{s} = 13$ TeV , Journal of High Energy Physics , 10 , 043

A. Hayrapetyan, K.Ranjan, (2023) , Search for direct production of GeV-scale resonances decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV, Journal of High Energy Physics , 2023(12), 1-41.

A. Hayrapetyan, K.Ranjan, (2023) , Search for new physics in multijet events with at least one photon and large missing transverse momentum in proton-proton collisions at 13 TeV , Journal of High Energy Physics , 10 , 046

A. Hayrapetyan, K.Ranjan, (2024) , Luminosity determination using Z boson production at the CMS experiment , The European Physical Journal C , 84 , 26

A. Hayrapetyan, K.Ranjan, (2024) , Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13$ TeV , Journal of Instrumentation , 19 , P02031

A. Hayrapetyan, K.Ranjan, (2024) , Observation of $W W \gamma$ Production and Search for $H \gamma$ Production in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV, Physical Review Letters , 132(2024), 121901

A. Hayrapetyan, K.Ranjan, (2024) , Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton. Journal of High Energy Physics, 2024(3), 1-49.

A. Hayrapetyan, K.Ranjan, (2024) , Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $s = 13\text{TeV}$. Physics Letters B, 850, 138478.

A. Tumasyan, K.Ranjan, (2023) , Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data , Journal of Instrumentation , 18 , P11017

A. Tumasyan, K.Ranjan, (2024) , Higher-order moments of the elliptic flow distribution in PbPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$, Journal of High Energy Physics, 2024(2), 106

A. Tumasyan, K.Ranjan, (2024) , Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$, Physical Review C , 109 , 024914

A. Tumasyan, K.Ranjan, et al , 2023 , Search for Z' bosons decaying to pairs of heavy Majorana neutrinos in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$, Journal of High Energy Physics , 11 , 181

Research Projects

Department of Science and Technology, Kirti Ranjan, Indian Participation in the CMS Experiment at CERN : Maintenance, Operation and Upgradation. Sanctioned amount of Rs.15 Crore. PI - Kirti Ranjan.

CENTRE FOR ENVIRONMENTAL MANAGEMENT OF DEGRADED ECOSYSTEMS

Brief History of the Centre

The Centre for Environmental Management of Degraded Ecosystems (CEMDE) is a premier Centre of the University and has been working on action research and capacity building in action research in the areas of ecology of invasive alien species and contemporary environmental problems.

Major Activities and Achievements

The Centre has provided insight on different facets of invasion ecology and has been developing bioremediation technologies for treatment of sewage and also for decontamination of contaminated soils and surface and ground waters with spent wash from distilleries. The Centre has been developing and managing a network of 7 Biodiversity Parks of Delhi Development Authority and these are first of their kind and contributing to environmental sustainability of Delhi, besides rendering a wide range of ecosystem services.

Honours/Distinctions

Faculty

Prof Inderjit Singh, Director was awarded with J. C. Bose National Fellowship, Science and Engineering Research Board, Government of India in 2023.

Prof Inderjit Singh, Director was awarded with the Excellence Award conferred by the University of Delhi to recognize the outstanding service and contributions to research and academic activities at the University, 2023.

Publications

Scopus Indexed Journals

Bhardwaj, P., Choudhary, V. K., Alam, M. S., Acharyya, S., Mazumdar-Leighton, S., & Babu, C. R. (2023). Temporal variability in foliar protein content and trypsin inhibitory levels in two host trees of tropical Tasar silkworm *Antheraea mylitta*, Drury. *Journal of Environmental Biology*, 44, 415-424.

Cai, L., Kreft, H., Taylor, A., Denelle, P., Schrader, J., Essl, F., ... & Weigelt, P. (2023). Global models and predictions of plant diversity based on advanced machine learning techniques. *New Phytologist*, 237(4), 1432-1445.

Choudhary, V. K., Bhardwaj, P., Kar, P. K., Mazumdar-Leighton, S., & Babu, C. R. (2023). Development of novel tasar cultivation zones and conservation of vanya silkworms in ecologically-restored sites within degraded mined-out areas of Purnapani, Odisha. *Journal of Environmental Biology*, 44, 505-512.

Goswami, V., Deepika, S., Chandra, R., Babu, C. R., & Kothamasi, D. (2023). Arbuscular mycorrhizas accelerate the degradation of colour containing organic pollutants present in distillery spent wash leachates. *Journal of Hazardous Materials*, 452, 131291.

Luo, Y., Taylor, A., Weigelt, P., Guénard, B., Economo, E. P., Nowak, A., ... & Kreft, H. (2023). Climate and ant diversity explain the global distribution of ant-plant mutualisms. *Ecography*, e06841.

Majumdar, S., Kaur, H., Rinella, M. J., Kundu, A., Vadassery, J., Erbilgin, N., ... & Inderjit. (2023). Synergistic effects of canopy chemistry and autogenic soil biota on a global invader. *Journal of Ecology*, 111(7), 1497-1513.

Research Projects

Uttar Pradesh Pollution Control Board (UPPCB), Government of U.P, Integrated Project on the Restoration and Restitution of Degraded Landscapes and Waterscapes and also for Prevention and Control of Pollution in and around Simbhaoli area (including Phuldera Drain and Syana Escape Canal) degraded by M/s Simbhaoli Sugars Ltd. PI - CR Babu and RS Sharma.

Seminars Organized

Inderjit delivered a lecture on “Allelopathy” organized by Max Planck Institute for Chemical Ecology, Jena Germany on February 7, 2024.

Faculty Strength

Professor: 1

Number of Ph.D. Degrees Awarded

01 (Environmental Studies)

CENTRE FOR GENETIC MANIPULATION OF CROP PLANTS

Brief History of the Centre

Centre for Genetic Manipulation of Crop Plants (CGMCP) has been involved with the genetic improvement of oilseed mustard (*Brassica juncea*) through conventional and molecular breeding. Extensive work has been carried out on field breeding, application of microspore-derived doubled haploids (DH) in breeding, transgenic development, and application of molecular mapping and genome sequencing in marker-assisted breeding.

Major Activities and Achievements

The Centre led to the development of some CMS-based and GM-based productive hybrids, several pure lines with improved quality and white rust resistance lines and identification of some promising combiners for heterosis breeding. Three white rust-resistant lines developed by CGCMP have been notified by the Ministry of Agriculture and Farmers Welfare for cultivation and these lines were provided to ICAR and several seed companies for commercialization. A transgenic mustard hybrid DMH-11 was approved by the Government of India for environmental release.

Publications

Scopus Indexed Journals

Mann, A., Kumari, J., Kumar, R., Kumar, P., Pradhan, A. K., Pental, D., & Bisht, N. C. (2023). Targeted editing of multiple homologues of GTR1 and GTR2 genes provides the ideal low-seed, high-leaf glucosinolate oilseed mustard with uncompromised defence and yield. *Plant Biotechnology Journal*, 21(11), 2182-2195.

Mathur, S., Singh, P., Yadava, S. K., Gupta, V., Pradhan, A. K., & Pental, D. (2023). Genetic mapping of some key plant architecture traits in *Brassica juncea* using a doubled haploid population derived from a cross between two distinct lines: vegetable type Tumida and oleiferous Varuna. *Theoretical and Applied Genetics*, 136(4), 96.

Verma, R., Hamsa, S., Mandal, S., & Kaur, J. (2023). Expression of Arabidopsis NPR1 (AtNPR1) in *Brassica juncea* var Varuna confers significant resistance against *Sclerotinia sclerotiorum* and *Alternaria brassicae*. *Physiological and Molecular Plant Pathology*, 126, 102030.

Research Projects

BIRAC, Testing the efficacy of the Brassica Juncea Glyphosate resistant transgenic lines against Orobanche Aegyptiaca infections. Sanctioned amount of Rs. 38.1 Lakhs. PI - Jagreet Kaur.

DBT, DBT-UDSC Partnership Centre on Genetic Manipulation of Brassicas-Phase II. Sanctioned amount of Rs. 13.66 Cr. PI - Jagreet Kaur and Prof Deepak Pental.

Mahyco, Oilseed mustard (*Brassica Juncea*) in the growing season 2023-24. Sanctioned amount of Rs. 25 Lakhs. PI - Jagreet Kaur and Prof Deepak Pental.

National/International MoUs Signed

A MoU with 2 companies for White rust resistant lines developed by CGMCP - M/s. Nuziveedu Seeds Ltd & M/s. Namdhari Seeds Pvt. Ltd.

A License agreement with three companies for transfer of hybrid mustard DMH-1 technology - M/s. Invicta Agritech India Pvt, Ltd; M/s.Ajeet Seeds Pvt. Ltd. & M/s. Nuziveedu Seeds Ltd.

Other Inter-Institutional Collaboration

Multi-institutional project "DBT- UDSC Partnership- Phase II" with 5 collaborating partners.

CENTRE FOR GLOBAL STUDIES

Brief History of the Centre

The Centre for Global Studies stands out due to its multicultural and interdisciplinary orientation, drawing Fellows from diverse regions and disciplines across the social sciences, with a strong focus on social equity and gender parity. Committed to advancing academic excellence, the Centre aims to establish itself as a global institution representing the multifaceted academic strengths of the university. This project marked one of the first comprehensive field-based election studies in post-independence India. Dedicated to continuity and sustainability, the Centre has consistently published its Annual Report and Quarterly Newsletter for the past three years. Additionally, the Centre actively seeks collaboration with national and international research organizations to further its research impact and outreach.

Major Activities and Achievements

During the academic session 2022-23, the Centre for Global Studies organized numerous academic events, including workshops, webinars, conferences, and interactive discourses. Noteworthy events included "Revisiting the Subaltern" on May 2, 2022, "The Russia Ukraine NATO War: An Indian Perspective" on May 31, 2022, "Understanding Indian Political Thought" on May 23, 2022, and "China-Taiwan: Collision and Implications for India" on August 12, 2022.

Additionally, a two-day national workshop titled "Humanism from an Integral Perspective: Executing the Ideas of Pandit Deendayal Upadhyaya" was held on September 25-26, 2022, commemorating Pandit Deendayal Upadhyaya's birth anniversary. The academic session concluded with the fourth lecture of the "Atal Bihari Vajpayee Memorial Lecture" series on December 25, 2022.

Seminars Organized

A seminar titled "Israel's War with Hamas: Implications for Israel and the Middle East", organized by Arik Rudnitzky from the Moshe Dayan Centre for Middle Eastern and African Studies, Tel Aviv University, Israel, on October 15, 2023.

A seminar titled, "India-Africa in the 21st Century: A Changing Perspective" organized by Brij Maharaj from the University of KwaZulu-Natal; and Sanjay Bhardwaj from SIS, JNU; featuring Shri Binaya Srikanta Pradhan, Indian High Commissioner to Tanzania on May 25, 2023.

A seminar titled, "Propagation, Pruning, and Cultivation of Mulberry", organised by Thallapally Mogili, Scientist (Retd.), Central Sericultural Research and Training Institute, Mysore, on August 9, 2023.

A two-day social science colloquium titled "Philosophy of Gita: Lessons for the Youth", organized by the Ministry of Culture, Government of India. Distinguished speakers included Hitesh Shankar, Chief Editor

of Panchjanya, Delhi; Sanjeev Sharma, formerly Vice Chancellor of Mahatma Gandhi Central University, Motihari, Bihar; Bhagwati Prakash Sharma, formerly Vice Chancellor of Gautam Buddha University, Noida, Uttar Pradesh; Sushma Yadav, Member of the University Grants Commission, New Delhi; Douglas Allen from the University of Maine, United States of America; among others, on August 13-14, 2023.

CENTRE FOR HIMALAYAN STUDIES

Brief History of the Centre

The Centre for Himalayan Studies at the University of Delhi is dedicated to the comprehensive understanding and sustainable development of the Himalayan region. Established to address the unique environmental, cultural, and geopolitical significance of the Himalayas, the Centre has become a hub for interdisciplinary scholarship. It integrates fields such as environmental science, anthropology, history, and international relations to tackle issues like climate change, ecosystem degradation, socio-economic challenges, and cultural preservation.

The Centre engages in collaborative research projects, symposia, and conferences, drawing scholars and experts worldwide. A key initiative is the annual International Conference, promoting global dialogue and cooperation on Himalayan issues. The Centre's vision is rooted in sustainability and resilience, aiming to be an academic leader that informs policy and action on Himalayan sustainable development. By collaborating with local communities, governments, and international organizations, it promotes practices that balance ecological integrity with human well-being. Committed to education, research, and outreach, the Centre nurtures scholars and practitioners to address the Himalayan region's complex challenges, ensuring its preservation and prosperity for future generations.

Major Activities and Achievements

The Centre for Himalayan Studies has marked significant milestones in advancing the understanding and preservation of the Himalayan region through various initiatives and collaborations. On December 11, 2023, the Centre celebrated World Mountain Day with the theme 'Restoring Himalayan Mountain Ecosystem: A Path to Sustainability,' emphasizing the critical need for ecological restoration. Following this, a Peer Research Group Meeting was convened on February 19, 2024, where experts identified major areas of future work and formed committees across 29 sub-themes related to the Himalayas. Additionally, the establishment of Himalayan Study Circles in collaboration with colleges has furthered grassroots engagement and research, enhancing regional academic involvement and fostering a deeper connection with the Himalayan ecosystem.

Publications

Scopus Indexed Journals

Kumar, P., Deka, D., Yadav, A., Kumar, M., Das, J. P., Singh, A., & Gurjar, A. (2024). Potential and actual evapotranspiration and Landsat derived indices. *Global Journal of Environmental Science and Management*, 10(3), 1227-1248.

Conferences Organized

International Conference entitled 'Bharat, Girmitiya and Africa: Historical, Cultural and Strategic Cooperation,' organized by B.W. Pandey, Convenor, 4th HHRS (Himalaya Hind Mahasagar Rashtra Samuh), in collaboration with the Forum for Awareness of National Security, Jamia Millia Islamia, on March 5-6, 2024.

CENTRE FOR HINDU STUDIES

Brief History of the Centre

The Centre for Hindu Studies was established in August 2023, marking a significant addition to the academic offerings at the university. With the introduction of a Master's program in Hindu Studies from the academic session 2023-24, the Centre has been provided space within the Faculty of Arts to facilitate classes and other academic activities. The formal inauguration of the Centre took place on November 20, 2023, by the Hon'ble Vice Chancellor, Prof. Yogesh Singh. In alignment with the National Education Policy of 2020, the M.A. Hindu Studies course covers comprehensive aspects of Hindu philosophy and offers the flexibility to pursue a minor in Political Science, Commerce, or Computer Science. To foster holistic learning, the curriculum includes Skill Enhancement Courses such as Manuscriptology, Data Analysis and Visualization, Cyber Security, and Intellectual Property Rights.

Seminars Organized

Seminar titled, 'Influence of the Upanishads on Western Literary Discourse', by Prof. Hitesh D. Raviya, Head, Department of English, Vice Dean, Faculty of Arts, M.S. University, Baroda on December 18, 2023.

Seminar titled, 'Understanding the Terms Hindu, Hinduism and Hindutva', by Prof. Nachiketa Tiwari, Professor, IIT Kanpur on December 19, 2023.

Seminar titled, 'Workshop on Manuscriptology, Conducted at National Mission for Manuscripts, IGNC, Delhi', by Dr. Anirban Dash, Director, National Mission for Manuscripts on February 22, 2024.

Seminar titled, 'The Oneness of Sikkhi and Hindu Dharma', by Prof. Jagbir Singh, Chancellor, Central University of Punjab on March 4, 2024.

Seminar titled, 'Introduction to E-Resources of University of Delhi', by Ms. Bhawna Vashishth, Professional Assistant, Central Reference Library, University of Delhi on March 4, 2024.

Seminar/Conference Presentations

Perna Malhotra presented a paper titled, 'Limitations of Post Colonial Frameworks for Interpreting Bhartiya Texts' in the Hindu Academician's Conference organized by the World Association of Hindu Academicians on April 8, 2023.

Faculty Strength

Senior Professors: 2

CENTRE FOR INDEPENDENCE AND PARTITION STUDIES

Brief History of the Centre

The Centre for Independence and Partition Studies was set up under Ordinance XX of the University Rules in 2023 to discuss matters related to independence of the country and the ensuing partition it entailed.

CENTRE FOR INNOVATION IN INFECTIOUS DISEASE RESEARCH, EDUCATION AND TRAINING

Brief History of the Centre

Centre for Innovation in Infectious Disease Research, Education, and Training (CIIDRET) was established under the ordinance XV-A of the University of Delhi in October 2015 after due approvals of the Academic Council and the Executive Council. CIIDRET carries out high-quality translational research in infectious diseases and has received several large-grants from Government funding agencies. The Centre provides state-of-the-art Proteomic and Genomic analytical services along with expert advice to scientists from both academia and Industry, and offers consultancy to the Biotech Industry.

Major Activities and Achievements

CIIDRET has organized an FDP to give hands-on training to teachers for the SEC course on Genomics that are offered at UG level under the UGCF NEP 2020.

Honours/Distinctions

Prof. Amita Gupta was invited as an Expert for the evaluation of proposals for NRDC National Meritorious Invention Award.

Patents Filed/Granted

An antibody fragment library, and uses thereof; EP application number - 18882787.7 by Prof. Amita Gupta

Seminars Organized by the Centre

Seminar entitled 'Essential Skills for Genomics' by Dr. Amita Gupta; Dr. Vijay Chaudhary, Dr. Rakesh Gupta, Dr. Vandana Gupta, Director, CIIDRET; NASI Senior Scientist CIIDRET, Professor, RLA College, during August 4-11, 2023.

Seminars Organized by the Faculty

Dr. Amita Gupta

Organized a seminar entitled "Phage Display: A powerful Technique and its Applications" in 4th International Conference on Bacteriophage Research and Antimicrobial Resistance in University of Madras, Chennai on September 29, 2023.

Organized a hands-on training on "Basics of Bacteriophage Biology & Clinical Applications to Combat the Emerging Antimicrobial Resistance" in Banaras Hindu University, Varanasi on October 4, 2023.

Faculty Strength

Professor: 01

CENTRE FOR INTER-DISCIPLINARY STUDIES OF MOUNTAIN & HILL ENVIRONMENT

Brief History of the Centre

The Centre played a key role in assisting Public and Private sector organizations in pursuing the goal of sustainable development. The Centre has a state-of-the-art infrastructure and vast expertise available in the area of Ecology, Biodiversity Conservation Management, Aquatic Ecology, Remote Sensing and Geographic Information System (GIS). The faculty members and scientists at the Centre are also engaged in full-time teaching programmes of the Department of Environmental Studies and guide research at Ph.D. level at the Centre.

Major Activities and Achievements

The Centre made significant contributions in the field of environment impact assessment of the energy sector and environmental sensitivity studies of river basins; the Ministry of Power, Government of India recognized it as Centre of Excellence in 2001-2002. It was subsequently established as an R&D Centre to conduct studies related to issues of environment impact and environment management in the power sector. The Centre so far conducted more than 60 studies related to environment impact assessment and biodiversity conservation across India. The Centre also provided expert advice and consultancy services to various institutions of Government of India, its PSUs and Private sector in the field of environment impact assessment and sustainable development.

Publications

Scopus Indexed Journals

Mukherjee, P., Sharma, R. S., Rawat, D., Sharma, U., Karmakar, S., Yadav, A., & Mishra, V. (2024). Microbial communities drive flux of acid orange 7 and crystal violet dyes in the water-sediment system. *Journal of Environmental Management*, 351, 119699.

Web of Science Indexed Journals

Garg, S., Mishra, V., Vega, L. F., Sharma, R. S., & Dumée, L. F. (2023). Hydrogen biosensing: prospects, parallels, and challenges. *Industrial & Engineering Chemistry Research*, 62(11), 4676-4693.

Kumari, R., Suman, K., Karmakar, S., Mishra, V., Lakra, S. G., Saurav, G. K., & Mahto, B. K. (2023). Regulation and safety measures for nanotechnology-based agri-products. *Frontiers in Genome Editing*, 5, 1200987.

Mishra, V., Mudgal, N., Rawat, D., Poria, P., Mukherjee, P., Sharma, U., ... & Sharma, R. S. (2023). Integrating microalgae into textile wastewater treatment processes: Advancements and opportunities. *Journal of Water Process Engineering*, 55, 104128.

Rawat, D., Sharma, U., Yadav, A., Poria, P., Farooqi, F., Pani, B., ... & Mishra, V. (2023). A bottom-up approach to select microbes from textile wastewater for detoxification of aromatic amine and azo dye in a single stage. *Journal of Water Process Engineering*, 53, 103668.

Sharma, S., Malhotra, L., Mukherjee, P., Kaur, N., Krishanlata, T., Srikanth, C. V., ... & Sharma, R. S. (2023). Putative interactions between transthyretin and endosulfan II and its relevance in breast cancer. *International Journal of Biological Macromolecules*, 235, 123670.

Sharma, U., Rawat, D., Mukherjee, P., Farooqi, F., Mishra, V., & Sharma, R. S. (2023). Ecological life strategies of microbes in response to antibiotics as a driving factor in soils. *Science of the Total Environment*, 854, 158791.

Research Projects

WAPCOS Water and Power Consultancy Services (India) Limited, Ecological Survey for EIA Study in Sharavathy, Upper Indravati, Teesta Intermediate, Idukki. Sanctioned amount of Rs. 24 Lakhs. PI - Vandana Mishra.

WAPCOS Water and Power Consultancy Services (India) Limited, Ecological Survey for EIA Study in Balimela and Kolab Pumped Storage. Sanctioned amount of Rs. 18 Lakhs. PI - Vandana Mishra.

Seminars Organized

Seminar entitled 'Evolution of Lung Loss in Terrestrial Vertebrates' by James Hanken, Former Director, Museum of Comparative Zoology, Harvard University, Institute of Eminence, University of Delhi on July 6, 2023.

History and Research in the field of Environmental and Climate Sciences by Markus Leuenberger, Professor, Physics Institute, University of Bern and Department of Environmental Studies, University of Delhi and Center for Interdisciplinary Studies of Mountain and Hill Environment on March 21, 2024.

CENTRE FOR PROFESSIONAL DEVELOPMENT IN HIGHER EDUCATION

Brief History of the Centre

CPDHE is one of the best MMTTC s in the country and is reputed for its dynamic and interdisciplinary programmes round the year with an aim at contributing to the overall professional development and intellectual growth of the teachers, these courses in turn also helps in development of students through their teachers' growth. In accordance with the UGC Guidelines, the curriculum of every programme is carefully framed keeping Indian educational philosophy and goal of national integration at its core.

Major Activities and Achievements

CPDHE tried to have the most innovative and vibrant courses and practices (as per the feedback of the resource persons and participants). Teachers attending the courses here learnt about the most effective teaching methodology and ways of designing creative curriculum. These courses encouraged teachers also to integrate ICT, e-learning methods while teaching which not only captures young minds but also further perpetuates the capabilities of students. This further motivates the faculty to improve upon their classroom

teaching methods by making them interactive/innovative sessions and thereby creating a transformative space of dialogue for enriched teaching-learning process. It is one of the main centres for training not only the faculty of Delhi University college or departments but for the thousands of faculties located in the nearest to the farthest corners of the country who are currently not connected to the mainstream academia.

Honours/Distinctions

Faculty

Prof. Geeta Singh

Visitor's nominee in the Selection Committee of Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh on December 12, 2023.

Member of the Peer Team Review (NAAC) of M.B. More Foundation's Arts, Commerce and Science Women College, Roha Maharashtra on April 24-25, 2024.

Member of the Selection Committee of Association of Indian Universities, New Delhi on April 4, 2024.

Vice-Chancellor's nominee of the Academic Advisory Committee of UGC-Malviya Mission Teacher Training Centre, Pondicherry University, Kalapet, Puducherry from April 1, 2024 to March 3, 2026.

Member of the Peer Team Review (NAAC) of Government First Grade College for Women's, Gadag, Karnataka on March 12-13, 2024.

Expert Member in the Board of Studies in History of The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat from September 1, 2023 to August 31, 2026.

Vice-Chancellor's nominee of the Governing Body of Management Committee of Kanoria College, Mukundgarh, Jhunjhunu, Rajasthan on August 8, 2023.

Vice-Chancellor's nominee of the Academic Advisory Committee of UGC-Human Resource Development Centre, Guru Nanak Dev University, Amritsar, Punjab on July 28, 2023.

Chancellor's nominee of the Selection Committee of Panjab University, Chandigarh on July 7, 2023.

Vice-Chancellor's nominee of the Advisory Committee of Center for Women Studies, Sri Lal Bahadur Shastri National Sanskrit University, New Delhi on May 29, 2023.

Vice-Chancellor's nominee of the Academic Advisory Committee of UGC-Human Resource Development Centre, Banaras Hindu University, Varanasi, Uttar Pradesh on January 06, 2023

Seminars Organized

NEP Orientation & Sensitization Programme during December 5- 12, 2023, December 19-29, 2023, January 2- 11, 2024, January 16- 25, 2024, February 1-9, 2024, February 20-29, 2024 & March 5-14, 2024 by UGC.

Refresher Course on Social Work and Social Sciences (IDC) from August 22, 2023 to September 4, 2023 by UGC.

Refresher Course in Mathematics/ Operational Research/ Statistics and Computer Science during February 5-17, 2024 by UGC.

Refresher Course in Tribal Culture, Heritage and Folklores (IDC) during February 15-28, 2024 by UGC.

Refresher Course on Community Participation in Higher Education (IDC) during March 9-22, 2024 by UGC.

Workshop on Automation and Digitisation by UGC during August 11-18, 2023.

Short Term Course on Indian Knowledge System and NEP 2020 by UGC during August 11-18, 2023.

Six-Day Short Term Face-to-Face Training Course on Indian Knowledge System (IKS) Batch-1:

आचार्य सु ुत (Acharya Sushruta), Batch-2: आचार्य कणाद (Acharya Kanad), Batch-3: आचार्य नागार्जुन (Acharya Nagarjuna) and Batch-4: महावीराचार्य (Mahaviracharya) by UGC during August 16-21, 2023.

Short Term Course on Research Methodology by UGC during December 20-27, 2023.

Webinar on National Education Policy 2020 on the theme, ' Internship/ Apprenticeship Embedded Degree Program' by UGC on February 3, 202403-02-2024.

Webinar on National Education Policy 2020 Theme: National Credit Framework by UGC on February 12, 2024.

Seminar/Conference Presentations

Prof. Geeta Singh

Delivered a lecture in the NEP Orientation & Sensitization Programme on April 20, 2024 organized by UGC - Malaviya Mission Teacher Training Centre (MMTTC), Banaras Hindu University, Varanasi, Uttar Pradesh.

Delivered a lecture on 'Indian Knowledge System' in the NEP Orientation & Sensitization Programme on April 19, 2024 organized by UGC - Malaviya Mission Teacher Training Centre (MMTTC), Indian Institute of Science Education and Research Bhopal, Madhya Pradesh.

Delivered a lecture on 'Academic Leadership, Governance and Management' in the NEP Orientation & Sensitization Programme on April 10, 2024 organized by UGC - Malaviya Mission Teacher Training Centre (MMTTC), Iswar Saran PG College, Prayagraj, Uttar Pradesh.

Delivered a lecture on 'जल का यवसायीकरण : आव9यकता या अभिशाप' in the World Water Day on March 23, 2024 organized by PGDAV College (Evening) and Rashtriya Swabhiman Aandolan.

Delivered a lecture on 'Indian Knowledge System' in the NEP Orientation & Sensitization Programme on March 19, 2024 organized by UGC - Malaviya Mission Teacher Training Centre (MMTTC), Iswar Saran PG College, Prayagraj, Uttar Pradesh.

Chaired a 3rd International Yogini Awards 2024 as Jury Member organized by Vishipsa eduGlif.

Delivered a lecture as Chief Guest in the Conference on Influential Women Leaders Summit 2023 organized by She Inspire3 Magazine on December 24, 2023.

Delivered a lecture as Keynote Speaker in the Women Conclave on Leadership by Indian Women: The Precursors of Pioneering Change in Indian Society organized by Earth Revital Foundation on November 25, 2023.

Delivered a lecture in the Vijayadashami Ceremony organized by Ramkrishna Puram Vibhag, Rashtra Sevika Samiti on October 24, 2023.

Delivered a lecture as a Speaker in Short Term Course on NEP Implementation 2020 on October 10, 2023 organized by UGC - Human Resource Development Centre, Aligarh Muslim University.

Delivered a lecture as Chief Guest in the One-day Multidisciplinary International Conference on Changing Global Dynamics in Law, Social Science, Science and Engineering jointly organized by International Council for Education Research and Training (ICERT) and PGDAV College, University of Delhi, Delhi on September 13, 2023.

Participated in “Consultative meeting with Directors of HRDCs and Institutional Leaders on Modules on Student Diversity in Higher Education” organized by Centre for Policy Research in Higher Education, National Institute of Educational Planning and Administration during September 5-6, 2023.

Delivered an inaugural lecture in the 10th & 11th Faculty Induction Program on August 7, 2023 organized by UGC - Human Resource Development Centre, Banaras Hindu University.

Delivered a lecture as a Speaker in the C-20 Namsai Conclave on Diversity, Inclusion, Mutual Respect in Arunachal Pradesh organized by Vivekananda Kendra Institute of Culture (VKIC) on June 9-12, 2023.

Delivered a lecture as Chief Guest in the Janaki Prakatyotsav Samaaroh 2023 organized by Vaidehi Foundation Ker Aatham on April 29, 2023.

Delivered a lecture as Chief Guest in the Seminar on Diversity, Inclusion & Mutual Respect organized by Vivekananda Kendra Kanyakumari, Delhi Branch on April 27, 2023.

Delivered a lecture as Special Guest in the Anandshla titled ‘Bhartiya Gyan Parampara aur Gurukul Shiksha’ organized by Aditi Mahavidyalaya, University of Delhi on April 19, 2023.

Delivered an inaugural lecture in the 3rd Refresher Course in History on January 23, 2023 organized by UGC - Human Resource Development Centre, Banaras Hindu University.

Faculty Strength

Professor :01

CENTRE FOR TRIBAL STUDIES

Brief History of the Centre

At present, the Centre for Tribal Studies is temporarily located at the Department of Anthropology, University of Delhi. The Centre will expand in physical space to carry out the desired academic and research activities.

Major Activities and Achievements

The Centre for Tribal Studies celebrated 'Janjatiya Gaurav Diwas' on November 15, 2023, to commemorate the birth anniversary of Bhagwan Birsa Munda, in collaboration with the Indira Gandhi National Centre for the Arts (IGNCA).

An exhibition titled 'The Contribution of Tribal Leaders of India in Nation-Building', was presented by IGNCA during the celebration of 'Janjatiya Gaurav Diwas', highlighting the culturally significant heritage of tribal leadership on November 15, 2023.

Ethnographic films focused on the Indigenous Knowledge Systems of tribes were also screened, providing a comprehensive view of their cultural significance on November 15, 2023.

Centre for Tribal Studies organised a day-long celebration of Janjatiya Gaurav Diwas on November 24, 2023. Students from different departments – Political Science, History, Sanskrit, Botany, Cluster Innovation Centre participated in the elocution competition on Role of Tribal freedom fighters in Nation building. Undergraduate students from different colleges of University of Delhi participated in this competition and spoke on the topic ‘Role of Tribal freedom fighters in Nation building’.

Seminars Organized

A special talk on ‘Memories of the tribal heroes in the freedom struggle and nation building’ was delivered by Anil Kumar, Head of the Janapada Sampada Division, Indira Gandhi National Centre for Arts, on November 24, 2023.

A special talk on ‘Millennium Water Story: Practicing Visual Anthropology for Water Sustainability’ was delivered by Nandita Singh, Associate Professor, Department of Environment, Development and Sustainability Studies, Södertörn University & Research Director, Millennium Water Story, Stockholm, Sweden, and Om Prakash Singh, Visual Coordinator, Department of Environment, Development and Sustainability Studies, Södertörn University, & Director, Millennium Water Story, Stockholm, Sweden.

Seminar/Conference Presentations (National / International)

Prof. S.M.Patnaik (Director, CTS, DU) delivered a special address as Guest of Honour on Tribal Study in India: Policy and Practice at Sambalpur University, Odisha on January 10, 2024.

Avitoli G Zhimo

Delivered an invited lecture on ‘Our land and people- Cultural Heritage of North Eastern India’ 484th Orientation Course in line with NEP-2020 for in-service teachers from January 30, 2024 at Centre for Cultural Resources and Training (CCRT) Headquarters, New Delhi.

Delivered an invited lecture on ‘Women in Indian Culture and Folk Traditions’ on the occasion of International Women’s Day organized by Indira Gandhi National Centre for the Arts (IGNCA), Regional Centre, Ranchi on March 14, 2024.

Delivered an invited lecture on ‘Tribal Empowerment’ in a webinar organized by the Department of Sociology, Indraprastha College for Women, University of Delhi, on August 14, 2023.

CLUSTER INNOVATION CENTRE (CIC)

Brief History of the Centre

The Cluster Innovation Centre - or CIC as it is popularly known - has been designed to seek and derive innovations from industrial clusters, village clusters, slum clusters and educational clusters. It is an endeavor to harness the passion and dedication of bright young minds with some of the major challenges of India and civil society. It strives to stream relevant ideas and programmes stemming from the above mandate into its learning and research programmes. The hallmark of the CIC is 'out of the box' thinking and action with 'hands-on' applications through a transdisciplinary route. The CIC has pioneered the concept

of a Meta College as well as a Meta University and runs highly innovative state of art learning and research programmes.

Major Activities and Achievements

The Centre launched several initiatives in 2023-24. These initiatives consisted of the Innovation and Start-up scheme IDEA: Imagine, Design, Execute, Administer that offered students a platform to cultivate their innovative ideas into viable ventures, with a generous stipend of up to Rs. 3.2 lakhs per annum. Additionally, the Centre introduced a Six-month Student Internship Scheme supporting them with a monthly stipend of Rs 10,000. In the inaugural cycle nine students were selected.

Furthermore, the Centre launched its PhD Programme, admitting 16 scholars. In addition to its academic programs, the Cluster Innovation Centre at the University of Delhi was instrumental in fostering entrepreneurial endeavors through its Design Innovation Centre (DIC). Two start-ups were incubated at DIC.

The students have been selected for major scholarships/ internships - Erasmus Mundus, Mitac Globalink Research, CERN, INSA and Outreachy. These achievements highlighted the Centre's multifaceted approach to fostering innovation, entrepreneurship, and scholarly pursuit.

Honours/Distinctions

Faculty

Dr. Asani Bhaduri received Excellence Award for Teachers in Service from University of Delhi in the Centenary Year 2023.

Dr. J S Purohit nominated as International Judge (Life Sciences) for UA global Undergraduate Innovation Awards, organized by Dublin Iceland (2023-24).

Prof Shobha Bagai appointed an AC nominee in the BOS for BS program, Design Innovation Centre, Islamic University of Science and Technology, Srinagar, external expert in the Interdisciplinary BOS for Design Your Degree. Jammu University, Jammu, member in the BOS for Design Your Degree. Islamia College of Science and Commerce, Srinagar, member in the BOS, Department of Mathematics, Christ University, Bengaluru and nominated on the Advisory Board of Centre for Innovation, Incubation and Entrepreneurship, University of Kashmir, Srinagar

Prof. Pankaj Tyagi, appointed as University Representative on the Governing Body of School of Rehabilitation Sciences, University of Delhi, University Representative on the Governing Body of Dr. Bhim Rao Ambedkar College, University of Delhi and subsequently selected as Chairman of the Governing Body. He was also nominated as a member of the Planning and Programming Committee (PPC) of National Science Centre, Delhi.

Dr. Asani Bhaduri organized Putul' - Traditional Toys and Dolls of India at Art Gallery, India International Centre Annexe during December 6-12, 2023. This was the first exhibition in India where a traditional toy from each state and UT was showcased (a Panel Discussion on 'Toys Today' .He is appointed as a member, Unnat Bharat Abhiyan Committee, University of Delhi, (2023-24).

Dr. Saleem Mir and Dr. Asani Bhaduri were nominated as the members of BOS for the Four Year Design Your Degree Programme, Govt. College for Women Parade Ground, Jammu.

Prof. Jyoti Sharma was appointed as a Member, Department Advisory Board, NCERT.

Students

Abhishek (2020 – 24 Batch), Agriya (2020 – 24 Batch), Rohan (2019 – 23 Batch), Arjun (2019 – 23 Batch) and Satyam (2019 – 23 Batch) of B.Tech were selected for the prestigious Google Summer of Code

Vaibhav Mehra awarded the Erasmus Mundus Scholarship, Saransh Chopra selected for Mitacs Globalink Research and CERN Internship, Arpita Kesawani got selected for Indian national Science Academy (INSA) internship and as an MLH (Major League Hacking) Fellow Software Engineering Track , New York, Abhishek Bhardwaj selected for the Outreachy Internship and Kritika Verma got selected for JRavi Lab Internship at Colorado USA.

Members of the Robotics society of CIC won First Prize in Line Follower Robotics Competition in Shaheed Rajguru College of Applied Sciences For Women, First Prize in Line Follower Robotics Competition in IIT JODHPUR, Third Prize in Micromouse Robotics Competition in IIT BHU, First Prize in Pixelette Robotics Competition in IIT BHU, Finalist of TechAid Competition in IIT Bombay Techfest, First Prize in Play with Maths in Shyam Lal College, University of Delhi, First prize in Code-a-thon(Avgaahan) Coding Competition, First Prize in GameJam IIIT Delhi Esya, 23 in Indraprastha Institute of Information Technology, Delhi and First Prize in GameJam IIIT Delhi Esya,23 Indraprastha Institute of Information Technology, Delhi.

Divya Gautam, Sipaas Usmani, Aastha Saraf of M.Sc (Mathematics Education) made paper presentations at various national conferences.

Divya Gautam, Shakoor Ahmed, Aastha Saraf, Ankita, Geetika and Aman of M.Sc (Mathematics Education) cleared their NET/ NET – JRF.

Publications

Scopus Indexed Journals

Antil, A., Saini, N., Sehgal, S., Aggarwal, S., & Shahzad, U. (2023). Effectiveness of metaphorical communication in the government campaign on Digitization. FIIB Business Review, 23197145231166746.

Arora, S., Singh, H. P., Sahota, L., Arora, M. K., Singh, S., Arya, R., & Prashar, A. (2024). Energy matrices, enviro-economic and characteristic equation-based performance analyses of photovoltaic thermal compound parabolic concentrator (PVT-CPC) coupled solar still equipped with heat exchanger using SWCNTs and MWCNTs–water nanofluids. International Journal of Ambient Energy, 45(1), 2308039.

Kala, G., Mir, M.S., Pandey, N., Srivastava, S., Sharmha, S., Purohit, J.S , 2023 , Knowledge, awareness and attitude towards cancer:An intervention-based study among the students of the University of Delhi, India , Journal of Public Health and Development , 3 , 246-259

Khurana, S., Kukreti, S., & Kaushik, M. (2023). Prospecting the cancer therapeutic edge of chitosan-based gold nanoparticles through conformation selective binding to the parallel G-quadruplex formed by short telomeric DNA sequence: A multi-spectroscopic approach. International Journal of Biological Macromolecules, 253, 126835.

Kumar, P., Sarkar, N., Singh, A., & Kaushik, M. (2023). Role reversal of silica nanoparticles with bovine trypsin from enzyme inhibitor to enzyme activator on surface modification. Process Biochemistry, 130, 614-624.

Kumar, S., Saran, K., Garg, Y., Dubey, G., Goel, S., Jha, A. N., & Verma, A. K. (2024). A novel influence quantification model on Instagram using data science approach for targeted business advertising and better digital marketing outcomes. *Social Network Analysis and Mining*, 14(1), 71.

Mehra, K., Kukreti, S., & Kaushik, M. (2023). A comparative catalytic kinetics study for exploring dye degradation potential of silver, gold and palladium nanoparticles. *Journal of Nanoparticle Research*, 25(7), 151.

Mehra, V., Sarkar, N., Biswal, B., & Kaushik, M. (2023). Simulation of nanocarrier-based targeted delivery of an antidepressant for major depressive disorder. *Molecular Simulation*, 49(15), 1465-1477.

Patel, A., Kumar, M., & Bagai, S. (2024). Heat and mass transfer under MHD mixed convection in a four-sided lid-driven square cavity. *Heat Transfer*, 53(3), 1220-1266.

Purohit, J. S., Singh, M., Raghuvanshi, Y., Syeda, S., & Chaturvedi, M. M. (2024). Evaluation of the Moonlighting Histone H3 Specific Protease (H3ase) Activity and the Dehydrogenase Activity of Glutamate Dehydrogenase (GDH). *Cell Biochemistry and Biophysics*, 82(1), 223-233.

Sharma, J., Biswal, B., Tyagi, P., & Bagai, S. (2023). University-based Mentoring Program for School Going Gifted Students. *Gifted and Talented International*, 1-14.

Singh, A., Bora, S., Khurana, S., Kumar, P., Sarkar, N., Kukreti, R., ... & Kaushik, M. (2023). Advance nanotherapeutic approach for systemic co-delivery of mitoxantrone loaded chitosan coated PLGA nanoparticles to improve the chemotherapy against human non-small cell lung cancer. *Journal of Drug Delivery Science and Technology*, 84, 104523.

Singh, A., Modak, S. B., Chaturvedi, M. M., & Purohit, J. S. (2023). SWI/SNF chromatin remodelers: structural, functional and mechanistic implications. *Cell Biochemistry and Biophysics*, 81(2), 167-187.

Tanwar, S., Famhawite, L., & Verma, P. R. (2023). Numerical Simulation of bio-heat transfer for cryoablation of regularly shaped tumors in liver tissue using multi probes. *Journal of Thermal Biology*, 113, 103531.

UGC Indexed Journals

Kala, G. (2023). Does Digital Technology Offer Continuity or Change in News Production?. *International Journal of Economic Perspectives*, 17(5), 121–131.

Kala, G. (2023). India and European Modernity: English Language an Instrument of Cultural Imperialism. *International Research Journal of Management Sociology & Humanities*, 14(6), 295-304.

Kumari, P., Singh, H. P., & Singh, S. (2023). Global stability of novel coronavirus model using fractional derivative. *Computational and Applied Mathematics*, 42(8), 346.

Research Projects

IOE, University of Delhi, 'Development of a novel nano-formulation based on core shell silica nanoparticles for synergistic anticancer effect of chemotherapy and photodynamic therapy.' Sanctioned amount of Rs.5 lakhs. PI - Mahima Kaushik.

IOE, University of Delhi, 'Quantification and Pattern Analysis of Digital Discourses to Understand Innovation and Start-Up Ecosystem Using Natural Language Processing and Machine Learning Approaches.' Sanctioned amount of Rs. 4 lakhs. PI - Sachin Kumar.

IOE, University of Delhi, 'Development of an autonomous robot using 3D visual SLAM.' Sanctioned amount of Rs. 5 lakhs. PI - Harendra Pal Singh.

ICMR Adhoc Grant, 'Age dependent epigenetic changes in mice sperm chromatin.' Sanctioned amount of Rs. 56 lakhs. PI - J S Purohit.

Seminars Organized by the Centre

FDP on "Empowering Educators for Engaged Learning in Higher Education" by Dinesh Singh, Kavi Arya, Alka Sharma, K S Kusuma, Hina Nandrajog, Anshumali Saxena, Former Vice Chancellor, DU in IITB, Jammu University; JMI; Vivekanand College, DU during August 04- 8, 2023.

Workshop on "Implementation of NEP through Innovative Curriculum in Higher Education" for Teachers from Jammu University and IUST, Srinagar by Dinesh Singh; Umesh Rai; Bechain Lal; Prof M M Chaturvedi, Vice Chairman, JKHEC and Former VC, DU; VC, Jammu University; VC Cluster University Jammu; Founder Director, CIC during September 11-14, 2023.

Workshop on "Project-Based Learning in Higher Education" for faculty members of Islamia College of Science and Commerce, Srinagar by Shobha Bagai; Saleem; Asani Bhaduri; J S Purohit, Cluster Innovation Centre during January 10-12, 2024.

Workshop on "Design Your Degree" for faculty members from Kashmir University, Srinagar by Shobha Bagai; Saleem; Asani Bhaduri; J S Purohit, Ms. Shobha, Cluster Innovation Centre from February 28 - March 3, 2024.

Workshop on "Design Your Degree" for teachers from Govt. College for Women, Parade Ground, Jammu by Shobha Bagai; Saleem; Asani Bhaduri; J S Purohit, Cluster Innovation Centre from February 15- 17, 2024.

Panel Discussion on "Ganita vs Mathematics" by C K Raju; M Nisa Khan, ISI Calcutta; Honeywell Research Centre, Minnesota on September 11, 2023.

Special Lecture on "Nanostructured Biomimetic Surfaces: Harnessing Nature's Design for Atmospheric Water Harvesting, Self-cleaning, and Wastewater Treatment" by Saifullah Lone, NIT, Srinagar on March 21, 2024.

Talk on "Isolation to Inclusion: Breaking Barriers in Loneliness in Old Age Homes" by Anuj Singh, President, Human Peace Foundation, Old Age Home on December 12, 2023.

Webinar on "Computational Finance" by B.Tech Alumni of Batch 2016 - 2020 on October 7, 2023.

Seminar/Conference Presentations

Shobha Bagai

Delivered a lecture on "Influence of Viscous Dissipation and Radiation on Transient Heat and Mass Transfer across a Permeable Flat Plate Embedded in Porous Media Saturated with Nanofluid" in 17th International Heat Transfer Conference, Cape Town organized by Assembly for International Heat Transfer Conferences on August 15, 2023.

Delivered a lecture on "Probability for school teachers" in a Workshop organized by The Delhi Public School Society on May 30, 2023.

Delivered a lecture on “Innovation Odyssey: Nurturing Curiosity and Creativity” organized by National Science Centre, New Delhi on February 2, 2024.

Along with Asani Bhaduri delivered a lecture on “Innovate 2 Elevate: Igniting Innovation and Entrepreneurship” in a two day workshop on Innovation and Entrepreneurship organized by Kashmir University, Srinagar on September 26, 2023.

Alka Dutt delivered a lecture on “Comparative view of Pre-service and In-service science teacher on education for environmental Sustainability” in 8th International Conference on “Fostering Sustainable Development in a Globalized World: Issues and Challenges organized by Commerce & Management association of India in academic partnership with Azerbaijan State University of Economics-Baku, Azerbaijan on January 9, 2024.

Asani Bhaduri

Delivered a lecture on “India @75: Celebrating 75 Birds of India – From Ladakh to Little Andaman” organized by India International Centre on May 9, 2023.

Delivered a lecture on “Introduction to the fascinating world of bird watching” organized by O.P. Jindal Global University on April 28, 2023.

Ashu Misra delivered a lecture on “Mahatma Gandhi Evam Rashtriya Shiksha Niti 2020 ke Vividh Aayam” in Sahitya, Kala aur Sanskriti Shikshan ke Naye Aayam Sandarbh: Rashtriya Shiksha Niti 2020 organized by CPM College, Prayagraj on February 27, 2024.

Sachin Kumar presented a paper on “A Novel Hybrid Model of Word Embedding and Deep Learning to Identify Hate and Abusive Content on Social Media Platform” in International Conference on Frontiers of Artificial Intelligence, Ethics, and Multidisciplinary Applications (FAIEMA) organized by National and Kapodistrian University of Athens, Greece on September 25, 2023.

Anjani Kumar

Presented a paper on “Paper presented: Assessing Suicidal Tendencies on Twitter using Berticle” in 2nd World Conference on Information Systems for Business Management (ISBM 2023) organized by Global Research Foundation, Bangkok Thailand on September 7, 2023.

Presented a paper on “An Accuracy Improvement in Facial Verification through Siamese Neural Networks” in 4TH National Conference on IoT, Machine Learning, Artificial Intelligence and its Applications (NCRIMA, 2023) organized by Sagar Institute of Research and Technology, Bhopal on April 24, 2023.

Dr. Saleem Mir delivered a lecture on “Documentation and Data Analysis Software for Research” in a workshop on Research Methodology organized by NIMS University, Jaipur, Rajasthan on September 21, 2023.

Other Inter-Institutional Collaboration

Cluster Innovation Centre ran its post graduate program M.Sc (Mathematics Education) in collaboration with AJKMCRRC, Jamia Millia Islamia under the Meta University concept.

Placement Details

68.75% of students placed

Extension and Outreach Activities

A 3-day Orientation Workshop on ‘Challenges & Opportunities of DYD’ was scheduled for the students of Govt. College for Women, Parade Ground, Jammu from March 18-20, 2024.

Students of B.Tech organized the 3rd Rust Meet up for various engineering students on October 14, 2023.

Students of M.Sc (Mathematics Education) organized a Mathematics Fair for the school children of Sarvodya Vidyalaya on August 5, 2023.

Faculty Strength

Professors: 6, Assistant Professors: 16, Guest: 3

DELHI SCHOOL FOR SKILL ENHANCEMENT & ENTREPRENEURSHIP DEVELOPMENT

Major Activities and Achievements

The Delhi School of Skill Enhancement & Entrepreneurship Development (DSSEED) was established under Ordinance XX -U of the University as a part of the Institution of Eminence Tag conferred to the University of Delhi. The DSSEED is mandated to serve as the key platform to promote and foster research and teaching excellence through Skill Enhancement Courses and inculcate Entrepreneurial spirit among all stakeholders again through different courses and inspirational interactions. DSSEED aims to fill the gap in the current knowledge delivery at DU for meeting the immediate and future challenges with ever-evolving programs involving all streams of education with training across faculties including Sciences (Biological, Chemical and Physical, Mathematical and Informatics), Humanities, Social sciences, Commerce and Economics, Finance and Management.

Honours/Distinctions

Faculty

Dr. Vijay Chaudhary (Director-DSSEED) is NASI Platinum Jubilee Senior Scientist at CIIDRET.

Conference Presentations

Vijay K. Chaudhary

Delivered Lecture titled “My Story of Learning Technology Development: Translating Innovative Science to Products for Society” on National Technology Day – 2023 at Amity University Gurugram, Haryana on May 16, 2023

Delivered Lecture titled “Harnessing the Power of Antibodies” at Mikro Vitae 2024, the Annual Department Fest of Department of Microbiology, Ram Lal Anand College, University of Delhi on February 15, 2024

Extension and Outreach Activities through Skill Enhancement workshops

The intense collaboration between DSSEED and CIIDRET has continued. More recently, the two institutions joined hands with the Ram Lal Anand College, Committee on SEC and GAD-TLC, SGTB

Khalsa College PMMMNMTT, Ministry of Education, GOI and conducted One Week National Faculty Development Program (FDP) entitled “Essential Skills for Genomics” from August 4-11, 2023 at RLA and CIIDRET premises.

DELHI SCHOOL OF JOURNALISM

Brief History of the Centre

Delhi School of Journalism, University of Delhi, is a premier Institute established in 2017. It is located in Delhi. Institute offers Degree courses including 1 UG and 1 PG courses. These programs are offered in Full Time mode. Delhi School of Journalism, University of Delhi is a well-known institution for B.J., M.J. courses. These programs are delivered by highly experienced faculty. Candidates can pursue multiple ranges of course like B.J., M.J. with the stream of Mass Communication & Media.

Major Activities and Achievements

Delhi School of Journalism (DSJ) organized a Swami Vivekananda Memorial National Debate on March 20, 2024 organized by the DSJ Debating Society-Chaupal.

Honours/Distinctions

Faculty

Ms Bhawna Solanki was awarded with the "Bharat Vibhushan Award-2023" by the National Book of Records.

Students

Sahanubhuti Krishnan and Rabnish Kashyap student of semester VI got selected and completed Press Council of India, Winter Internship Program 2024.

Shubham Gupta won 1st prize for On Spot Film Making Competition in Shyam Lal College, University of Delhi.

Ayush Jain Cleared CDS examination 2023 with OTA Rank 90.

Pradeep Kashyap and Neeraj Ahirwar, students of DSJ-Batch 2018 (FYIPJ) cleared UGC-NET JRF Exam in June 2023.

Shubham Gupta won 3rd prize in Bharat Literature Festival Photography Competition (2023)

Anand A, Vishnu Dinaker and Shailesh Kumar, students of Semester VI, won 1st prize in Inter-College Spot Filmmaking Competition organized by Photography Society of KMC, University of Delhi in 2023.

Chirag Jha and Sujal Sharma won the Best Team Award at All India Sri Nand Lal Gadhiya Memorial Debate at Mewar University.

Sanya Malhotra secured third position in Trinity College, IP University, Dwarka in the Solo Dance Competition (2023).

Kartikey Parashar student of semester I won best anchor award at Amity University, Noida.

Deepanshu Jha student of semester IV won first prize in All India shri nandal gadiya memorial debate at Mewar university, Rajasthan.

Publications

UGC Indexed Journals

Sharma, R. & Singh, N.V.(2023) , Can smart education address the knowledge gap in India? International Journal of Communication Development, 14 (1&2), 39-45.

Tandon, S., Sachdeva, P. & Tripathi, D. (2024) , Unsung Heroes: Immortal "Ranis" of Azad Hind Fauj and their Struggles, Naman, 30(17), 236-245.

Seminars Organized by the Centre

Seminar entitled ‘Mental Health issues of youth’ by Vibha Sharma and Manisha Jha, Professor, Dept of Clinical Psychology, IHBAS, Delhi on September 26, 2023.

Seminar entitled ‘Approaches to Research in Media and Communication’ by Shefali Chaturvedi, Consultant Communication and Broadcast Specialist on October 28, 2023.

Seminar entitled ‘Ideas in Indian Political Thought’ by Piyush Pushkar, Advocate Supreme Court of India on November 25, 2023.

Seminar entitled ‘Discovering the Intricacies of Diplomacy’ by H.E., Alberto A. Guani, Ambassador of Uruguay on November 29, 2023.

Seminar entitled ‘Science Journalism’ by Ankita Mishra, Editor of Hindi monthly magazine Avishkar and English-bi-monthly invention intelligence NRDC on December 14, 2023.

Seminar entitled ‘Media Polity and the legal system in India’ by Seema Singh, Senior Professor, Faculty of Law and Academic Council Member, University of Delhi on February 08, 2024.

Seminar entitled ‘AI in Communication: How Artificial Intelligence is used for becoming a better communicator’ by Hemant Gaule, Dean, School of Communication and Reputation on February 01, 2024.

A student Interaction programme- NEISSR visit by Robin Thomas , Asst. Professor NEISSR on February 01, 2024.

Seminar entitled ‘Media, Language & Proponents in shaping Nationalism’ by Payal Mago, Prafulla Ketkar, Anant Vijay, Ravi Teckchandani, Swadesh Singh , Director COL, University of Delhi Editor, Organiser Weekly Associate Editor, Dainik Jagran Director, NCPSL MoE, Govt. of India Asst. Professor Satyawati College, University of Delhi on March 6, 2024.

Seminar Organized by the Faculty

A Certificate Course on ‘Digital Teaching Techniques’ in ICT Academy by Geeta Mishra on April 17, 2023.

A National Seminar entitled ‘Analyzing the Key Constructs of News Media Literacy: An Empirical Study on Youth and Social Media’ under ‘Bharat Shresth Bharat: The Role of Media in Contemporary Scenario in Centre for Media Studies, JNU by Priyanka Sachdeva on June 5, 2023.

Students under Exchange Program

01

Placement Details

20 students placed (40%)

Extension and Outreach Activities

Cleanliness Drive organized by Vasudha-The Eco Club Society of DSJ.

Faculty Strength

Guest: 54

DELHI SCHOOL OF TRANSLATIONAL AFFAIRS

Seminars Organized

Seminar entitled, “Global Governance: Technocracy and Legitimacy”, by Nicole Hassoun, Research Director at the Helsinki Collegium for Advanced Studies, organized on March 13, 2024

Seminar entitled, “A Second Charter: Imagining a Renewed United Nations”, by Augusto Lopez-Claros, Executive Director of the Global Governance Forum, organized on October 27, 2023

Organized a talk on Global Governance: Technocracy and Legitimacy on March 13, 2024. The talk was delivered by Prof. Nicole Hassoun, Research Director at the Helsinki Collegium for Advanced Studies, Professor at Binghamton University, and executive director of the Global Health Impact Organization at the Satyakam Bhavan, Delhi University.

Faculty Strength

Senior Professor/Professor/Director. Director: 1, Associate Professor/Jt. Director:1, Assistant Professor/OSD :1

DR. B.R. AMBEDKAR CENTRE FOR BIOMEDICAL RESEARCH

Brief History of the Centre

Dr. B.R. Ambedkar Center for Biomedical Research (ACBR), University of Delhi was established in 1992 at North Campus University of Delhi. The Center offers M.Sc. and Ph.D in Biomedical Sciences and Postgraduate diploma in bioinformatics, computational biology and drug discovery through highly competitive entrance exam/s at national level. ACBR is a unique center in the country to train students at the interface of chemistry- biology with applications in biomedical sciences. The students are imparted practical based learning well amalgamated with up-to-date theoretical knowledge. The students are introduced to research labs at the end of second semester and encouraged to implement innovative research

in an interactive multidisciplinary environment. They are also inspired to take summer programs at national and international research labs of their choice as well as attend conferences / symposia and workshops. The ACBR alumni are holding high academic/research positions and are recognized globally.

Major Activities and Achievements

The exemplary growth of the ACBR is documented by consistent publishing in high impact journals, citation indices, national and international patents as well as active collaborations with other Institutes of higher learning.

The momentum of growth set by ACBR in the academic journey of future biomedical scientists is well matched with the national agenda of “Health for all by 2047”.

Honours/Distinctions

Faculty

Prof. Sunit K. Singh was elected as a Fellow of the National Academy of Medical Sciences India in recognition of his work in the area of Molecular Virology.

Prof. Sunit K. Singh delivered Dr. P K Seth Memorial Oration Award in XLI Annual Meeting of Indian Academy of Neurosciences & International Conference on Brain: Chemistry to Cognition at Jiwaji University, Gwalior.

Prof. Sunit K. Singh was awarded with the Prof. CNR Rao Education Foundation Award.

Publications

Scopus Indexed Journals

Aggarwal, S., Narang, R., Saluja, D., & Srivastava, K. (2024). Diagnostic potential of SORT1 gene in coronary artery disease. *Gene*, 909, 148308.

Aggarwal, Y., Vaid, A., Visani, A., Rane, R., Joseph, A., Mukherjee, S., ... & Banerjee, J. (2024). Cold atmospheric plasma (CAP) treatment increased reactive oxygen and nitrogen species (RONS) levels in tumor samples obtained from patients with low-grade glioma. *Biomedical Physics & Engineering Express*, 10(2), 025018.

Anang, V., Singh, A., Kumar Rana, A., Saraswati, S.S., Bandyopadhyay, U., Verma, C., Chadha, A., & Natarajan, K. (2023). Mycobacteria modulate SUMOylation to suppresses protective responses in dendritic cells. *PLOS ONE*, 18.

Bandyopadhyaya, S., Yadav, P., Sharma, A., Dey, S. K., Nag, A., Maheshwari, R., ... & Mandal, C. C. (2023). Oncogenic role of an uncharacterized cold-induced zinc finger protein 726 in breast cancer. *Journal of Cellular Biochemistry*, 124(6), 889-906.

Bhowmik, R., Kant, R., Manaihiya, A., Saluja, D., Vyas, B., Nath, R., ... & Aspatwar, A. (2023). Navigating bioactivity space in anti-tubercular drug discovery through the deployment of advanced machine learning models and cheminformatics tools: a molecular modelling based retrospective study. *Frontiers in Pharmacology*, 14, 1265573.

- Dey, S. K., Kumar, S., Rani, D., Maurya, S. K., Banerjee, P., Verma, M., & Senapati, S. (2023). Implications of vitamin D deficiency in systemic inflammation and cardiovascular health. *Critical reviews in food science and nutrition*, 1-18.
- Dubey, V., Roy, A., Dixit, A. B., Tripathi, M., Pandey, S., Jain, S., ... & Banerjee, J. (2023). Dendritic reorganization in the hippocampus, anterior temporal lobe, and frontal neocortex of lithium-pilocarpine induced Status Epilepticus (SE). *Journal of Chemical Neuroanatomy*, 133, 102329.
- Faiq, M. A., Sengupta, T., Nath, M., Velpandian, T., Saluja, D., Dada, R., ... & Chan, K. C. (2023). Ocular manifestations of central insulin resistance. *Neural Regeneration Research*, 18(5), 1139-1146.
- Kant, R., Kaushik, R., Chopra, M., & Saluja, D. (2023). Structure-based drug discovery to identify SARS-CoV2 spike protein–ACE2 interaction inhibitors. *Journal of Biomolecular Structure and Dynamics*, 1-19.
- Kant, R., Kaushik, R., Chopra, M., & Saluja, D. (2023). Structure-based drug discovery to identify SARS-CoV2 spike protein–ACE2 interaction inhibitors. *Journal of Biomolecular Structure and Dynamics*, 1-19.
- Khan, M. J., Singh, P., Jha, P., Nayek, A., Malik, M. Z., Bagler, G., ... & Syed, M. A. (2023). Investigating the link between miR-34a-5p and TLR6 signaling in sepsis-induced ARDS. *3 Biotech*, 13(8), 282.
- Kumar, K., Dubey, V., Zaidi, S. S., Tripathi, M., Siraj, F., Sharma, M. C., ... & Banerjee, J. (2023). RNA Sequencing of Intraoperative Peritumoral Tissues Reveals Potential Pathways Involved in Glioma-Related Seizures. *Journal of Molecular Neuroscience*, 73(6), 437-447.
- Mathur, A., Gangwar, A., & Saluja, D. (2023). Esculetin releases maturation arrest and induces terminal differentiation in leukemic blast cells by altering the Wnt signalling axes. *BMC cancer*, 23(1), 387.
- Mishra, C. B., Shalini, S., Gusain, S., Kumar, P., Kumari, S., Choi, Y. S., ... & Tiwari, M. (2024). Multitarget action of Benzothiazole-piperazine small hybrid molecule against Alzheimer's disease: In silico, In vitro, and In vivo investigation. *Biomedicine & Pharmacotherapy*, 174, 116484.
- Pandey, N., Singh, S. K. (2023) , MicroRNA-155 triggers a cellular antiviral immune response against Chandipura virus in human microglial cells. *Microbes and Infection*, 25(7), 105173.
- Pandey, S., Anang, V., Singh, S., Seth, S., Bhatt, A. N., Kalra, N., ... & Dwarakanath, B. S. (2023). Dietary administration of the glycolytic inhibitor 2-deoxy-D-glucose reduces endotoxemia-induced inflammation and oxidative stress: Implications in PAMP-associated acute and chronic pathology. *Frontiers in Pharmacology*, 14, 940129.
- Pawar, A., Konwar, C., Jha, P., Kant, R., Chopra, M., Chaudhry, U., & Saluja, D. (2023). Bactericidal activity of esculetin is associated with impaired cell wall synthesis by targeting glutamate racemase of *Neisseria gonorrhoeae*. *Molecular Diversity*, 1-18.
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- Poonia, P., Sharma, M., Jha, P., & Chopra, M. (2023). Pharmacophore-based virtual screening of ZINC database, molecular modeling and designing new derivatives as potential HDAC6 inhibitors. *Molecular Diversity*, 27(5), 2053-2071.

- Rai, S., Girdhar, M., Siraj, F., Sharma, S., Kumar, M., & Katyal, A. (2023). Mechanistic insights into immunopathogenesis of murine cerebral malaria: Cues from “young” C57BL/6J and BALB/c mice. *Immunology Letters*, 256, 9-19.
- Rana, A. K., Saraswati, S. S. K., Anang, V., Singh, A., Singh, A., Verma, C., & Natarajan, K. (2024). Butyrate induces oxidative burst mediated apoptosis via Glucose-6-Phosphate Dehydrogenase (G6PDH) in macrophages during mycobacterial infection. *Microbes and Infection*, 26(3), 105271.
- Saini, M., Upadhyay, N., Dhiman, K., Manjhi, S. K., Kattuparambil, A. A., Ghoshal, A., ... & Kundu, S. (2024). ARL15, a GTPase implicated in rheumatoid arthritis, potentially repositions its truncated N-terminus as a function of guanine nucleotide binding. *International Journal of Biological Macromolecules*, 254, 127898.
- Saraswati, S. S. K., Rana, A. K., Singh, A., Anang, V., Singh, A., & Natarajan, K. (2023). HSP-27 and HSP-70 negatively regulate protective defence responses from macrophages during mycobacterial infection. *Microbes and Infection*, 25(6), 105126.
- Shahjahan, Joy Kumar Dey, Sanjay Kumar Dey , 2023 , Competitive binding of ribavirin, velpatasvir, and remdesivir to the active site of DNA polymerase can make them repurposable drugs to combat Monkeypox. *International Journal of Scientific Development and Research* , 8(10) , 771-784
- Sharma, K., & Sharma, M. (2023). Optical biosensors for environmental monitoring: Recent advances and future perspectives in bacterial detection. *Environmental Research*, 116826.
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Sinha, V., Singh, A., Singh, A., Saraswati, S. S. K., Rana, A. K., Kalra, K., & Natarajan, K. (2024). Potassium ion channel Kir2. 1 negatively regulates protective responses to Mycobacterium bovis BCG. *Journal of Leukocyte Biology*, qiae068.

Tripathi, A., Tripathi, D., Shukla, M., & Sharma, M. (2024). Therapeutic potential of polyphenols against aging-induced idiopathic pulmonary fibrosis (IPF) via Bioinformatics analysis. *Phytomedicine Plus*, 4(1), 100500.

Tripathi, D., Kapoor, A., Bulbul, Pankaj, Kant, R., Saluja, D., & Sharma, M. (2024). Functional annotation of *Candida albicans* hypothetical proteins: a bioinformatics approach. *Archives of Microbiology*, 206(3), 118.

Tripathi, D., Kapoor, A., Bulbul, Pankaj, Kant, R., Saluja, D., & Sharma, M. (2024). Functional annotation of *Candida albicans* hypothetical proteins: a bioinformatics approach. *Archives of Microbiology*, 206(3), 118.

Research Projects

SERB, Bystander effects of ORF3a and ORF6 of SARS-CoV-2 on microRNA mediated gene regulations and their impact on inflammatory responses in Human Lung Epithelial Cells. Sanctioned amount of Rs. 57.99 Lakhs. PI - Sunit K. Singh.

LSRB (DRDO), Design and development of broad-spectrum antiviral agents against viral proteases from Coronavirus and Flavivirus. Sanctioned amount of Rs. 50.51 Lakhs. PI - Madhu Chopra, Co-PI - Sunit K. Singh.

ICMR, Study on the involvement of microRNAs in Dengue Virus Neuro-invasion and molecular Neuropathogenesis. Sanctioned amount of Rs. 44 Lakhs. PI - Sunit K. Singh.

DST, Medical Awareness, Capability, Patient Empowerment and Partnership for managing Cancer through E Learning, Demonstrations and Public Awareness Events. Sanctioned amount of Rs. 19.63 Lakhs. PI - Daman Saluja.

IOE, Study to evaluate the effect of morin and myricetin in the prevention and cure of mutant hSOD-1 protein aggregation. Sanctioned amount of Rs. 5 Lakhs. PI - Manisha Tiwari.

Patents Filed/Granted

Patent Filed: Kumar R, Sanjay Kumar Dey, Saini KK, Upadhyay RK; Title: Under examination and Biologically Active Anti-Cancer Compound and Derivative Thereof and Green Synthesis; Design No.- 202411007373

Seminars Organized

11th Workshop on 'Bioinformatics & Drug Design: Artificial Intelligence and Machine Learning-based Methods' by Madhu Chopra, Mohd. Shoaib Khan, Prakash Jha ACBR, DU and Girinath Pillai, Lead Scientist, Sygnature Discovery, UK; Shandar Ahmad, JNU; Gitanjali Yadav, Staff Scientist V at NIPGR, New Delhi; Lipi Thukral, IGIB; D. Sengupta, IIIT Delhi; D. K. Vishwakarma, DTU; Punit Kaur, AIIMS, New Delhi; Raja Mugasimangalam, Founder and CEO Genotypic Technology, Bengaluru; C. Vijay Kumar, INMAS-DRDO, Delhi during April 18-20, 2024.

Summer Undergraduate Research Program by Sunit K. Singh , Director ACBR, DU ElloraSen , NBRC, Manesar; Tapan K. Nayak , IIT, Delhi; Sanjeev Kumar , Trivedi School of Biosciences (TSB), Ashoka University; SudipSen , Dept of Biochemistry, AIIMS; Vineeta Sharma , ManavRachna University; Arnab Bhattacharjee , School of Computational and Integrative Sciences; Harmeet Singh Rehan , Dept of Pharmacology, Lady Hardinge Medical College during June 1-13, 2023.

Seminar/Conference Presentations

Sunit K Singh

Presented at “Viral and Cellular Interactions’ in Molecular Virology Meeting in Indian Institute of Science (IISc), Bengaluru on August 22, 2023.

Delivered a lecture on “Interplay between viruses and cellular microRNAs in molecular pathogenesis of viruses” in a Symposium organized by Thieme Publishers, Germany on October 25, 2023.

Delivered a lecture on “Virokines hit hard to the Brain Microvascular Endothelial Cells” in an International conference organized by Jiwaji University, Gwalior on October 4, 2023.

Madhu Chopra

Delivered a speech in a workshop on “Strategies of computer-aided drug design and development: a new perspective” organized by GLA University, Mathura on August 25, 2023.

Delivered a lecture in seminar entitled “Strategies for Computer-Aided Drug Design " organized by Dept of Biotechnology, School of Engineering and Technology, Manav Rachna International Institute of Research and Studies (MRIIRS) on August 9, 2023.

Delivered a speech in a workshop on “Emerging and Established Techniques for Purification and Characterization of Phytoconstituents and Synthetic Molecules” organized by Amity University, Noida on March 14, 2024.

Aparna Dixit

Delivered a speech in a symposium on “Altered lipid profiles in brain tissue resected from patients with focal cortical dysplasia (FCD) with a potential role in defining the epileptogenic zone during surgery” organized by IAN, Gwalior on October 1, 2023.

Delivered a lecture on “Understanding the molecular mechanisms of drug resistant epilepsy using a top down approach and utilizing nanotechnology-based approaches in diagnosis and treatment of epilepsy” in a seminar organized by Department of Biophysics, Punjab University , Chandigarh on October 13, 2023.

Delivered a lecture on “Regulation of glutamate receptors mediated by Fibronectin-Integrin-Src kinase axis in the hippocampus and ATL in Temporal Lobe Epilepsy” in a seminar organized by AIIMS, Patna on January 20, 2024.

Anju Katyal delivered a lecture in a workshop on “Biological Research & Bioethics in India” organized by Indian society of chronobiology on March 18, 2024.

Other Inter-Institutional Collaboration

DBT Project, PI - Prof. Madhu Chopra, Co-PI - Dr. Tavpritesh Sethi, IIIT Delhi.

COVID project, PI - Prof. Madhu Chopra & Dr. Anil K. Mishra, Co-PI - Dr. Puja Panwar, INMAS.

Faculty Strength

Professors: 9, Assistant Professors: 4

No. of M.Phil./Ph.D. Degrees Awarded

12

INSTITUTE OF CYBER SECURITY AND LAW

Brief History of the Centre

Post Graduate Diploma in Cyber Security and Law (PGDCSL) started its first batch from the Academic Session 2018-19 under the aegis of Institute of Cyber Security and Law (ICSL) University of Delhi with Shaheed Sukhdev College of Business Studies. This is a Self-financing course wherein the Faculty delivers the course through Industry as per the GFR and Guidelines for Information Technology projects. The 2023-24 batch enrolled 35 students.

Seminars Organized by the Centre

Seminar on ‘Malware Analysis and Crypto currency Trends’ by Sh. Jitender Singh, ACP Delhi Police on April 29, 2023.

Seminar entitled ‘SCADA: Supervisory Control and Data Acquisition’ by H.S. Sharma, Ex-Vice-Chancellor on May 3, 2024.

Seminar entitled ‘Network Segmentation and Segregation in SCADA’ by H.S. Sharma , Ex-Vice-Chancellor on May 16, 2023.

Seminar on ‘VAPT’ by Mr. Namit Gupta, VP, FIS Global on June 17, 2023.

Seminar on ‘VAPT and other Security Threats’ by Mr. Abhijeet Singh, Manager NIXI on June 20, 2023.

Placement Details

Total 20 students placed (57.14%).

Faculty Strength

Professors: 1, Guest: 10

INSTITUTE OF INFORMATICS & COMMUNICATION

Brief History of the Centre

Information Technology integrates a wide spectrum of knowledge and skill ranging from the design of computer hardware, software systems, and telecommunication to the impact of information technology on

society. To achieve this holistic goal the Institute of Informatics & Communication (IIC) was established in 1997 with the objectives of serving as an inter-disciplinary centre for humanities, social sciences, pure and applied sciences and as a nodal point between university and various Institutions/Industries, related to communication and informatics; conducting professional/socially relevant post-graduate teaching programmes, independently or in collaboration with various departments on different aspects of communication and informatics and for conducting research on various aspects of informatics and communication.

Publications

Scopus Indexed Journals

Aggarwal, N., Shukla, U., Saxena, G. J., Rawat, M., Bafila, A. S., Singh, S., & Pundir, A. (2023). Mean based relief: An improved feature selection method based on ReliefF. *Applied Intelligence*, 53(19), 23004-23028.

Birwal, A., Patel, K., & Singh, S. (2024). Circular Slot-Based Microstrip Circularly Polarized Antenna for 2.45 GHz RFID Reader Applications. *IEEE Journal of Radio Frequency Identification*, 8, 10-18.

Gandhi, S., Bhushan, A., Shukla, U., Pundir, A., Singh, S., & Srivastava, T. (2023). Downregulation of lncRNA SNHG1 in hypoxia and stem cells is associated with poor disease prognosis in gliomas. *Cell Cycle*, 22(9), 1135-1153.

Jain, S., Pundir, A., Singh, S., & Saxena, G. J. (2024). Navigating the face recognition: unleashing the power of few-shot learning through metric-based insights. *Multimedia Tools and Applications*, 1-23.

Rawat, M., Bafila, A. S., Kumar, S., Kumar, M., Pundir, A., & Singh, S. (2023). A new encryption model for multimedia content using two dimensional Brownian motion and coupled map lattice. *Multimedia Tools and Applications*, 82(28), 43421-43453.

Thushari, P. D., Aggarwal, N., Vajrobol, V., Saxena, G. J., Singh, S., & Pundir, A. (2023). Identifying discernible indications of psychological well-being using ML: explainable AI in reddit social media interactions. *Social Network Analysis and Mining*, 13(1), 141.

Vajrobol, V., Aggarwal, N., Shukla, U., Saxena, G. J., Singh, S., & Pundir, A. (2023). Explainable cross-lingual depression identification based on multi-head attention networks in Thai context. *International Journal of Information Technology*, 1-16.

Research Projects

Ministry of Education, Samarth eGov. Sanctioned amount of Rs. 16 Cr. PI: Sanjeev Singh.

Placement Details

Total 9 students placed (20%).

Faculty Strength

Professor: 01

Number of Ph.D. Degrees Awarded

INSTITUTE OF LIFELONG LEARNING

Brief History of the Centre

The Institute of Lifelong Learning (ILLL) at the University of Delhi was established with a vision to extend the university's resources and expertise to a broader audience, fostering an environment of continuous education and personal development. Since its inception, ILLL has played a pivotal role in promoting lifelong learning opportunities for individuals of all ages, bridging the gap between academia and the community. The institute offers a diverse range of programs, including short-term courses, workshops, seminars, and online learning modules, tailored to meet the evolving educational needs of society.

ILLL has consistently adapted to the advancements in technology and pedagogical practices, ensuring that its offerings remain relevant and accessible. Collaborations with various academic departments, industry partners, and international institutions have enriched its curriculum and expanded its outreach. The institute is committed to nurturing a culture of lifelong learning, empowering learners with the skills and knowledge required to navigate the complexities of the modern world. Through its dedicated efforts, ILLL has established itself as a cornerstone of the University of Delhi's mission to democratize education and foster intellectual growth beyond the traditional classroom setting.

Major Activities and Achievements

From April 1, 2023 to March 31, 2024, the Institute of Lifelong Learning at the University of Delhi achieved significant milestones through its diverse initiatives. Central to its accomplishments was the successful orchestration of an Academic Writing Workshop, supported by ONGC, conducted in both Hindi and English, with plans for continuation into the next fiscal year. Collaborating closely with esteemed institutions, ILLL organized four national workshops addressing crucial topics such as 'Mission Drug Free Campus,' 'DULS Training the Trainers,' 'Overseas Scholarship for SC Students,' and 'Antibiotic Abuse,' in partnership with DSW, DU, ULSTER University, and the Social Studies Foundation.

The institute also hosted a seminar commemorating Ambedkar's birth anniversary and delivered a comprehensive training program on social audit in social work practice. Noteworthy was its participation in a poster competition during International Literacy Week in collaboration with NCERT, underscoring its commitment to literacy promotion. Additionally, the efficient management of admissions for two CES batches for 2023-24 further exemplified the institute's operational efficiency and commitment to lifelong learning and academic excellence.

Research Projects

ICSSR, Accessibility and Sustainability of PM Krishi Sinchai Yojana: A Comparative Study of Uttar Pradesh, Jharkhand, Himachal Pradesh and Uttarakhand" (F. No. ICSSR-CRP-2023-974). Sanctioned Amount of Rs.1400000. PI: Prof. Sanjoy Roy, Co-PI: Sanjeev Kumar.

Seminars Organized by the Centre

Academic Writing Workshop (funded by ONGCF): English, by Minakshi Lahkar, Veena Kapoor, Tasleem Sahnaz, among others. Sessions held from February 8, 2023-March 31, 2023, and from February 13, 2023-April 7, 2023, funded by ONGCF.

132nd Birth Anniversary of Dr. B.R. Ambedkar & Valedictory Session for the Academic Writing Workshop on April 24, 2023.

Lecture Cum Workshop titled, 'Mission Drug Free Campus', organized by Dean Student's Welfare, Institute of Lifelong Learning, and ARSD College in collaboration with Narcotics Control Bureau, Ministry of Home Affairs, held from June 15-16, 2023.

One-day workshop titled, 'Training the Trainer' on Availability & Accessibility of e-Books & Digital Archives', by Institute of Lifelong Learning and Delhi University Library System on July 6, 2023.

International Conference & Workshop titled, 'Addressing Antibiotics Abuse in Community using Bio sensing Technologies', by Institute of Lifelong Learning in collaboration with ULSTER University and NanoLaticeX, from August 25-27, 2023.

Awareness Workshop titled, 'Overseas Scholarship for SC Students', organized in collaboration with Social Studies Foundation (SSF) at ILL Auditorium on October 25, 2023.

Short Term Training Programme titled, 'Social Audit as a tool of Social Work Practice', by Sudhir K. Maske, Assistant Professor, DSSW, organized in collaboration with Department of Social Work & Northern Michigan University, USA, from February 27-March 4, 2024.

INTERDISCIPLINARY CENTRE FOR PLANT GENOMICS

Brief History of the Centre

The Interdisciplinary Centre for Plant Genomics (ICPG) was established in 2005 to seek and impart knowledge on Genomics, to carry out frontline research in the area of Plant Genomics, to generate new ideas for the acceleration of the pace of progress in Plant Genomics, to apply knowledge gained from basic concepts in Structural and Functional Genomics for crop improvement, to train and enrich human resources in the area of Genomics and to provide a platform for interaction at an institutional and inter-institutional level among scientists specializing in biology, chemistry, computer science, engineering, mathematics, physics and allied sciences, to bring together the policymakers, civil society and researchers for interaction and need-based development of enabling technologies/information in Genomics and their application. The Centre is currently located on the 3rd floor of the Biotech Centre in the South Campus of the University.

Major Activities and Achievements

The ICPG members are involved in the discovery and characterization of genetic and bioinformatic resources involved in plant reproductive development and response to environmental stress conditions. It participated and contributed significantly to the global genome sequencing efforts on Rice, Tomato, and Wheat. An ICPG-PMB-led multi-institutional DBT-funded program on functional genomics of rice has revealed functions of several genes involved in floral transition, gametophyte development, and seed development. In plant reproduction, the group has identified and characterized a number of candidate genes

that play key roles during panicle initiation, anther development and seed development. The work on a seed-specific MADS-box transcriptional regulator, OsMADS29, has revealed the interplay of regulatory mechanisms that play roles during developmental transitions. Grain chalkiness in rice is a negative agronomic trait associated with the rise in temperature during grain filling. The resultant grains are brittle and cause a significant loss of income for the farmers. Prof. Sanjay Kapoor's group has developed a genetic technology that significantly reduces chalkiness in rice grains and has filed a patent. Utilizing the leads from seed development and for the process of starch accumulation during grain filling in rice and other cereals, the group is involved in developing cell-line-based biofactories for starch production using cellular agriculture methodologies.

ICPG members are actively involved in discovering and characterizing genetic and bioinformatic resources related to plant reproductive development and responses to environmental stress. They have significantly contributed to global genome sequencing projects for Rice, Tomato, and Wheat. An ICPG-PMB-led program, funded by DBT, uncovered the functions of genes in rice's floral transition, gametophyte development, and seed development. Prof. Sanjay Kapoor's group focuses on elucidating molecular mechanisms regulating plant growth and stress responses. Their recent studies include the Ca²⁺-Calmodulin regulation of OsMADS29, a key transcription factor in rice seed development. The group also utilizes insights from seed development and starch accumulation to develop cell-line-based biofactories for starch production using cellular agriculture methods. They have explored the functional versatility of the multi-protein mediator complex in plant growth and examined the role of TRDMT1/DNMT2 in stress adaptation in *Physcomitrium patens*. Additionally, their meta-QTL analysis has identified haplotype combinations that mitigate grain chalkiness under high temperatures in rice. Prof. Saurabh Raghuvanshi's research group is pioneering the exploration of microRNA (miRNA) dynamics in rice, focusing on the regulatory mechanisms under stress conditions. Their recent study elucidates how tissue-specific responses modulate miR408 and its targets during drought stress, offering insights into plant stress adaptation. Another significant contribution by the group delves into the evolutionary aspects of the miRNA biogenesis machinery in plants, particularly rice, shedding light on the complexity and functionality of these small regulatory RNAs.

Research Publications

Balyan, S., Kansal, S., Jajo, R., Behere, P. R., Chatterjee, R., & Raghuvanshi, S. (2023). Delineating the tissue-mediated drought stress governed tuning of conserved miR408 and its targets in rice. *Functional and Integrative Genomics*, 23(2).

Chaudhary, C., Sharma, N., & Khurana, P. (2023). Genome-wide identification of Aux/IAA and ARF gene families in bread wheat (*Triticum aestivum* L.). *Protoplasma*, 260(1), 257–270.

Chithung, T. A., Kansal, S., Jajo, R., Balyan, S., & Raghuvanshi, S. (2023). Understanding the evolution of miRNA biogenesis machinery in plants with special focus on rice. *Functional & Integrative Genomics*, 23(1).

Daware, A., Malik, A., Srivastava, R., Das, D., Ellur, R. K., Singh, A. K., ... Parida, S. K. (2023). Rice Pangenome Genotyping Array: an efficient genotyping solution for pangenome-based accelerated genetic improvement in rice. *The Plant Journal : For Cell and Molecular Biology*, 113(1), 26–46.

Gambhir, P., Raghuvanshi, U., Parida, A. P., Kujur, S., Sharma, S., Sopory, S. K., ... Sharma, A. K. (2023). Elevated methylglyoxal levels inhibit tomato fruit ripening by preventing ethylene biosynthesis. *Plant Physiology*, 192(3), 2161–2184.

- Jain, N., Khurana, P., & Khurana, J. P. (2023). AtTLP2, a Tubby-like protein, plays intricate roles in abiotic stress signalling. *Plant Cell Reports*, 42(2), 235–252.
- Kumari, A., Sharma, D., Sharma, P., Wang, C., Verma, V., Patil, A., ... Agarwal, M. (2023). Meta-QTL and haplo-pheno analysis reveal superior haplotype combinations associated with low grain chalkiness under high temperature in rice. *Frontiers in Plant Science*, 14, 1133115.
- Mahto, A., Yadav, A., Aswathi, P. V., Parida, S. K., Tyagi, A. K., & Agarwal, P. (2023). Cytological, transcriptome and miRNome temporal landscapes decode enhancement of rice grain size. *BMC Biology*, 21(1).
- Prusty, A., Sharma, S., Malik, N., Kapoor, S., & Tyagi, A. K. (2023). Functional Versatility of Multi-Protein Mediator Complex in Plant Growth and Development. *Critical Reviews in Plant Sciences*, 42(3), 138–176.
- Sharma, A., Samtani, H., Sahu, K., Sharma, A. K., Khurana, J. P., & Khurana, P. (2023). Functions of Phytochrome-Interacting Factors (PIFs) in the regulation of plant growth and development: A comprehensive review. *International Journal of Biological Macromolecules*, 244.
- Sharma, E., Bhatnagar, A., Bhaskar, A., Majee, S. M., Kieffer, M., Kepinski, S., ... Khurana, J. P. (2023). Stress-induced F-Box protein-coding gene OsFBX257 modulates drought stress adaptations and ABA responses in rice. *Plant Cell and Environment*, 46(4), 1207–1231.
- Singh, S., Sharma, P., Mishra, S., Khurana, P., & Khurana, J. P. (2023). CRY2 gene of rice (*Oryza sativa* subsp. indica) encodes a blue light sensory receptor involved in regulating flowering, plant height and partial photomorphogenesis in dark. *Plant Cell Reports*, 42(1), 73–89.
- Singh, S., Vergish, S., Jain, N., Sharma, A. K., Khurana, P., & Khurana, J. P. (2023). OsCRY2 and OsFBO10 co-regulate photomorphogenesis and photoperiodic flowering in indica rice. *Plant Science : An International Journal of Experimental Plant Biology*, 330.
- Verma, V., Boora, N., Nayar, S., Kumar, G., Thapliyal, S., Ankur, ... Kapoor, S. (2023). Ca²⁺-Calmodulin regulates nuclear translocation of the rice seed-specific MADS-box transcription factor OsMADS29. *The FEBS Journal*, 290(14), 3595–3613.
- Wadhwa, N., Singh, D., Yadav, R., Kapoor, S., & Kapoor, M. (2023). Role of TRDMT1/DNMT2 in stress adaptation and its influence on transcriptome and proteome dynamics under osmotic stress in *Physcomitrium patens*. *Physiologia Plantarum*, 175(5), e14014.

Students under Exchange Program

The ICPG members have collaborative projects with several institutions across India and abroad. Several students from universities/institutions across India visit ICPG for a short duration for specialized experiments.

Extension and Outreach Activities

The faculty has been involved in delivering lectures related to our research achievements, general scientific awareness and opinions on current topics related to plant research at several institutes, universities and undergraduate colleges.

Faculty Strength

1 Director (Permanent Faculty), 3 Associated Faculty (Permanent as well as recently superannuated, but continuing)

Other Significant Information

A few of the Centre's teachers are serving as Editor(s)/Members(s) of Editorial Boards of various Scientific Journals:

Professor A. K. Tyagi with "Molecular and General Genomics, Transgenic Research, and Rice"

Prof. Sanjay Kapoor, Associate Editor, "Rice"

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

Brief History of the Centre

A centralized facility with sophisticated analytical instruments is maintained by the University Science Instrumentation Center for all researchers and faculty members of science departments and constituent colleges of the University of Delhi. The center is open six days a week (9:00 am to 5:30 pm.). The USIC is an in-campus research facility established by University of Delhi to impart state of the art sophisticated scientific instruments to facilitate high quality research work in the emerging areas of physical and life sciences. The University departments under the Faculty of Science are actively involved in conducting pioneer research in various disciplines, in addition to teaching. In order to carry out the experimental research work, the researchers need various scientific sophisticated analytical instrument facilities.

Major Activities and Achievements

The facilities were mainly supported by the USIC to various departments, centers and colleges. This was reflected by the huge number of publications appearing consistently in journals of international repute over the years. In addition to internal users, the facility was extended to outside users (academic and industry) on payment basis. In addition to providing access to modern research facilities, the center also extended the mentorship through training and workshops for researchers.

The sophisticated instruments available at USIC included Vibrating sample magnetometer, High resolution X-ray diffractometer, LCMS with Quadropole time of flight, Differential Scanning Calorimeter, 400 MHz Nuclear Magnetic resonance, Scanning electron Microscope (SEM) with EDS, CHNS Analyzer etc.

Seminars Organized by the Centre

Two day hands-on training Workshop on UV-VIS-NIR and ICP-Mass spectrometer on March 5-6, 2024.

WOMEN'S STUDIES AND DEVELOPMENT CENTRE FOR ADVANCED STUDIES

Brief History of the Centre

Women's Studies and Development Centre of Advanced Study (WSDC), University of Delhi, was established in 1987 as a response of the University of Delhi to the call from the University Grants Commissions (UGC) to address women's concerns in higher education. Since then, WSDC has covered a long distance by expanding its programmes and activities. WSDC has been recognized as an Advanced

Centre of Study by the UGC in 2016. During the last thirty one years it has been guided and nurtured by eminent women professors as Directors, who brought in their subject expertise to women's studies.

Seminars Organized by the Centre

Payal Mago, the Director, WSDC, DU

Organized Three months Certificate Course from August- November, 2023 on 'Understanding Women's Studies and Indian Feminism' in hybrid mode.

Delivered an online lecture on the Topic 'Role of Women Development Centre's in Higher Education Institutions' held on July 27, 2023.

Delivered online lecture on the Topic: 'Sexual Harassment and Legal Rights' by esteemed Speaker Dibyanshu Pandey, Advocate, Supreme Court of India held on August 4, 2023.

WSDC Forum Lecture on the topic: 'Exploring Inclusive Strategies for Individuals with Disabilities: A Discussion on Advocacy and Support' by Esteemed Speaker: Poorva G. Mittal, Assistant Professor, Swami Shraddhanand College, University of Delhi on September 16, 2023.

WSDC Forum at the Centre presented a Symposium in collaboration with SHoDH- Delhi on the occasion of celebrating the 500th Birth Anniversary of Rani Durgawati on "Rani Durgawati: The Warrior Queen of Undeclared Sword" on October 6, 2023.

WSDC Forum presented a lecture by Sushri Lahiri Bai on the topic 'Women Activism Towards Environmental Conservation' on Sunday, December 10, 2023.

WSDC Forum delivered an online lecture on the topic "Women in Indian Knowledge Tradition" by Vidyadevdharji on January 11, 2024.

WSDC Forum organized one day workshop on the topic 'Women Sensitization: A Need of the Hour', by Payal Mago, Director, WSDC, University of Delhi (Patron), Lora Prabhu, Founder Director, CEQUIN and Vibhuti Gaur, Associate Professor on February 17, 2024.

One-Day National Seminar on 'Transcending Indian Feminist Thought' in lieu of Celebration of International Women's Day Payal Mago, Director, WSDC, DU on March 7, 2024.

Other Inter-Institutional Collaboration

The Centre collaborated with the Woman's Development Cells and Sensitisation Units of various Colleges in the University of Delhi in order to institute the WSDC Forum.

Faculty Strength

Professor :01

COLLEGES

ACHARYA NARENDRA DEV COLLEGE

Brief History of the College

Acharya Narendra Dev College, a constituent institution of the University of Delhi funded by the Delhi Administration, has made significant strides since its inception in 1991. Celebrating its 23rd anniversary, the college reflects with pride on numerous milestones achieved over the years. The college has carved a niche in university education due to its unwavering commitment to societal contributions and innovative teaching-learning approaches. The college embodies the principles of Acharya Narendra Deva, a visionary educationist and reformist of modern India, including fostering self-respect, societal respect, a scientific outlook, and deep-rooted humanism. These guidelines form the foundation of our institution. With "Asato Maa Sadgamaya" (Lead us from unreality to reality) as its motto, Acharya Narendra Dev College strives relentlessly towards turning its aspirations into reality.

The institution was built on a strong foundation that continues to benefit the college today. In subsequent years, the college initiated its research activities by establishing a dedicated research laboratory, enabling faculty members to start externally funded research projects. Currently, the college boasts nine research laboratories and seven ongoing projects. In 2006, the college adopted the tagline "Beyond the Classroom," fostering an environment where students can pursue diverse activities according to their interests.

Major Activities and Achievements

Acharya Narendra Dev College (ANDC) has garnered significant recognition with a NAAC score of 3.29. Ranked the 19th Best Science College in India by India Today and securing the 21st position under the NIRF by the Ministry of Education, ANDC has held STAR STATUS since 2021. Due to prolific research activities, 34 faculty members have been promoted to Professors, and a new research wing has been established.

This year, several new labs were inaugurated, including Computational and Synthetic Chemistry, Device Modelling and Simulation, Mathematics, Sericulture Skill Development, Advanced Chemistry Research, and Thalassemia and Cancer screening labs. ANDC now boasts 25 research laboratories and offers Value Addition Courses on Research Methodology for Life Science and Physical Science students. It is one of only two colleges, and the sole science college, within the University of Delhi to have a Business Incubator with funding from DTTE, GNCTD. The Acharya Narendra Dev College Incubation Foundation (AIF) supports 18 incubatees and 9 pre-incubatees, with a collective valuation exceeding INR 400 crores and generating over INR 55 crores in revenue, creating more than 200 jobs. AIF has provided INR 59 lakhs in funding to 9 incubatees and regularly organizes impactful events. AIF has an international MOU with TSD, Singapore, and has established two Centers of Excellence under the AIF-TSF-SCII Hub.

Honours/Distinctions

Faculty

Prof. Urmi Bajpai (Biomedical Science) featured among the 35 Young Vigyan Vidushis, the next generation of women in STEM in the book titled Vigyan Vidushi, 75 Women Trailblazers of Science

awarded by Vigyan Prasar, Department of Science and Technology (DST), Government of India in April, 2023.

Dr Sunita Jaitley (Biomedical Science) received Appreciation Certificate as Program Officer NSS for Blood Donation and Thalassemia Screening, awarded by Delhi State Health Mission, Delhi state AIDS Control Society and State Blood Cell on June 14, 2023.

Prof. Manisha Verma (Physics) received Teachers' Excellence Award by Commission for Other Backward Classes (Govt. of National Capital Territory of Delhi) on September 02, 2023

Prof. Sunita Hooda (Chemistry) received Teachers' Excellence Award by Commission for Other Backward Classes (Govt. of National Capital Territory of Delhi) on September 02, 2023

Prof. Geetu Gambhir (Chemistry) received Teachers' Excellence Award by Commission for Other Backward Classes (Govt. of National Capital Territory of Delhi) on September 02, 2023.

Publications

Scopus Indexed Journals

Abraham, J. S., Somasundaram, S., Maurya, S., Sood, U., Lal, R., Toteja, R., & Makhija, S. (2024). Insights into freshwater ciliate diversity through high throughput DNA metabarcoding. *FEMS microbes*, 5, xtae003.

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Ahuja, H., Narang, S., & Saxena, R. (2023). A Novel Framework to Strengthen Early Warning Systems. *Engineering, Technology & Applied Science Research*, 13(5), 11917-11923.

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Arora, A., Kumar, S., Khatri, V., Prasad, A. K., Chhatwal, R. J., & Kumar, S. (2024). Recent advances in the synthesis and application of C-2-Formyl glycals. *Synthesis*, 56(06), 890-905.

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- Dagar, V. S., Mishra, M., Sharma, A., Sankar, M., Verma, A., Saxena, T., & Kumar, S. (2023). Alterations in the gut enzymes of *Helicoverpa armigera* (Hübner) induced by dietary *Artemisia annua* L. essential oil. *International Journal of Tropical Insect Science*, 43(4), 1295-1303.
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UGC Care-list Indexed Journals

Gupta, C. K. (2023). Modified Ovule Clearing Technique to Examine Monosporic Apinagia-type Embryo sac Development in Indotristicha ramosissima (Podostemaceae-Tristichoideae). *International Journal Of Plant And Environment*, 9(04), 378-381.

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Web of Science Indexed Journals

Lanbiliu, P., Samal, R. R., Panmei, K., & Kumar, S. (2024). Relative survival and detoxification enzyme activity in *Dysdercus koenigii* (Hemiptera: Pyrrhocoridae) exposed to β -cyfluthrin alone and its nanometric emulsion. *Phytoparasitica*, 52(2), 38.

Research Projects

SERB, Department of Science and Technology, DNA barcoding for ciliate species identification of Delhi. Sanctioned Amount of Rs. 41.97 lakhs. PI- Prof. Seema Makhija.

Indian Council of Medical Research (ICMR), MERA INDIA PROJECT, Attractive Toxic Sugar Bait (ATSB) methods to control mosquitos in different regions of Delhi NCR. Sanctioned amount of Rs. 35.28 lakhs. PI- Prof. Sarita Kumar.

BITS BioCyTiH Foundation, Multiplexing for easy and affordable Detection of Myeloid Leukemia (CML and AML-M2). Sanctioned Amount of Rs. 26 lakhs. PI- Dr. Sunita Jaitley.

Defense Research and Development Organization (DRDO), Fabrication of packaged high frequency SAW devices of given specification. Sanctioned Amount of Rs. 36.29 lakhs. Co- PI- Prof. Arijit Chowdhuri.

Department of Science and Technology (DST), Embedding Ferroelectric Hafnium-Zirconium Oxide (HZO) in gate stack of GaN based junction less transistor. Sanctioned Amount of Rs. 31.93 lakhs. Co-PI- Prof. Arijit Chowdhuri

Patents Filed/Granted

01 (Filled) and Indian Patent; Patent Holders: Monika Tomar, Arijit Chowdhuri, Kajal Jindal, Gunjan Yadav; Applied on February 17, 2023; Title, "Development of self-powered HfO₂ thin film based low cost solar blind deep UV photodetector". (Application No.-202311010975)

Seminars Organized

Seminar entitled, 'Quality Control of Variant Peptides in Proteogenomics-Catching the (Un)Usual Suspects', DBT STAR Seminar by Debasis Dash, Chief Scientist, CSIR-IGIB, on July 4, 2023.

Seminar entitled, 'Propagation, Pruning and Cultivation of Mulberry', DBT STAR College Scheme, by Thallapally Mogili, Scientist (Retd.) Central Sericultural Research and Training Institute, Mysore, on August 9, 2023.

Seminar entitled, 'Extraction and applications of sericin biomolecule', DBT STAR College Scheme, by Deepti Gupta, Professor, IIT Delhi on August 12, 2023.

Conferences Organized

Organised One-day National Conference on 'One Earth, One Family, One Future' on April 03, 2023, by Department of Commerce, under the aegis of IQAC, ANDC and Department College Interface, Department of Commerce in collaboration with Delhi School of Economics, University of Delhi and Indian Commerce Association, Delhi NCR.

Organised National Workshop on 'Raising Awareness on Urban Air Quality, Climate Change, Health and e-Resilience' on November 28, 2023, by Department of Zoology, in collaboration with Environmental

Pollution Laboratory (EPL), Department of Environmental Studies, University of Delhi, and sponsored by Department of Science and Technology (DST), Government of India.

Organised International Conference on ‘Chemical and Biological Sciences (ICCBS-2024)’ on December 7, 2023, in collaboration with Department of Chemistry, Atma Ram Sanatan Dharma College (University of Delhi) in association with Kwangwoon University (South Korea), North-West University (South Africa), and SRM Institute of Science.

Organised National Symposium & Hands on Training on ‘Ecosystem Restoration & Sustainability’ on February 22, 2024 by Department of Botany.

Organised One-week ‘Bootcamp 2.1 for V-lab Development’ on March 11, 2024 by Department of Computer Science. in collaboration with V-Lab@ANDC under Viksit Bharat Abhiyaan, under the aegis of IQAC and DBT Star College Scheme.

Seminar/Conference Presentations (National / International)

National

Manisha Verma presented a paper titled, ‘Study of Thermal stability of multi-component Functionalized bio composite material’ in Online International Conference on Advance Interdisciplinary Research ICAIR 2023 organized jointly by Digvijay Nath Post Graduate College and Science Tech Institute Lucknow held between April 7-9, 2023.

Shalu Mahajan presented a paper entitled “Impact of Environment, social and governance factors on sustainable business growth: an Insightful Review” at 9th INDAM Conference 2024, organised by INDAM & Goa Institute of Management during January 11-13, 2024 at Goa Institute of Management, Goa.

Anita Narang presented a paper titled “Mass propagation of *Acacia nilotica* seedling explants through tissue culture” at International Conference on Chemical and Biological Sciences (ICCBS) organised by Atma Ram Sanatan Dharma College (University of Delhi) held between January 27-29, 2024.

Arijit Chowdhuri, Prof. Charu K. Gupta and Dr Vineet K. Singh (Botany) presented a paper titled “Effect of habitat restoration on reproductive fitness of *Cassia fistula* L.- an ecologically important native tree in Delhi NCR” at the International Conference on Chemical & Biological Sciences organized by Department of Chemistry under the aegis of Internal Quality Assurance Cell (IQAC) of Atma Ram Sanatan Dharma College (University of Delhi) in association with Kwangwoon University (South Korea), North-West University (South Africa), Acharya Narendra Dev College (University of Delhi), and SRM Institute of Science & Technology (Modinagar), held on January 27-29, 2024.

Joita Dhar Rakshit presented a paper entitled ‘Decolonizing the Colonial Gaze: Representation of India in the Travel Narratives of British Women Travellers’ at the International Conference on ‘Modernism, India and the Colonial Gaze’ sponsored by Indian Council of Social Science Research, New Delhi, supported by Sahitya Akademi, New Delhi and organized by the Department of English, Daulat Ram College, University of Delhi on February 1-2, 2024.

Dinesh Kumar Arya presented a paper titled “An efficient and environmentally friendly, multicomponent synthetic approach using Indiumtriflate to synthesise structurally varied spiroannulated benzothiazolopyrimidines” in the International Conference on Crossroads of Chemistry, Biology and Atmospheric Environment: A Modern Prospective, jointly organised by University of Delhi, Indian Science

National Congress (ISCA), Delhi Chapter and the Indian Society of Analytical Scientists-Delhi Chapter, on February 26-28, 2024.

Pankaj Khanna presented a paper titled 'Ultrasound-assisted extraction, antioxidant activity and insecticidal activity of *Cycas* sp.' at International Conference on Crossroads of Chemistry, Biology & Atmospheric Environment: A Modern Prospective, organized by Department of Chemistry on February 26-28, 2024.

Charu K. Gupta presented a paper titled “Amelioration of Salt Stress Tolerance in *Vigna Radiata* (L.) Wilezek through coordinated nutrient uptake and primary metabolic regulation by arbuscular Mycorrhizal fungus” in international conference on “Biodiversity, Biotechnology and Bioprospects of Fungi for Agricultural, Industrial and Environmental Sustainability” (BBBFAIES-2024) & 50th Annual Meeting of Mycological Society of India, Organized by Centre for Advanced Studies in Botany, University of Madras, on March 06-08, 2024.

Ms Sangeeta Relan, Ms. Anuradha Sarin and Dr Sandeep Kumar Goel presented a paper on “Gender Parity on Corporate Boards- The Road Ahead” at the 9th Annual International Commerce Conference, Viksit Bharat in Amrit Kaal, organised by the Department of Commerce, Delhi School of Economics, University of Delhi in collaboration with Deen Dayal Upadhyay College, University of Delhi from March 14-15, 2024.

National/International MoUs Signed

Various MoUs have been signed with different institutions that entail exchange programme, short -term modules, summer workshops, collaborative research and global networks.

MoU with NII (National)

MoU with Translational Health Science Technology Institute (National)

MoU with Auburn University of Montgomery, Alabama, USA (International)

MoU with International Bacteriophage Research Consortium (International)

MoU with ANDC SPIE Student Chapter (International)

Other Inter-Institutional Collaboration

Prof. Urmi Bajpai delivered a talk on “Bacteriophages: the dark matter of the biospheres” in a symposium on “Data Driven Approaches to Understand Biological Systems” at the CSIR-IGIB, Mathura Road on April 29, 2023.

Prof. Seema Makhija delivered a talk and conducted workshop on ‘Fascinating World of Microbes, Protozoans and Career Opportunities’ at G.D. Goenka University, Gurugram on May 16, 2023.

Dr Ravneet Kaur participated as Resource Person in a five-day workshop on “Online Course in Teaching of Science at Middle Stage.” held at DESM, NCERT, New Delhi from July 31- August 04, 2023.

Prof. H.C. Verma, delivered a talk on ‘Photonics and Applications’ as a part of Optics Outreach culmination program of SPIE (Photonics) on October 6, 2023.

Prof. Sarita Kumar was Resource person in the workshop on ‘Modification and Development of Biology and Biotechnology Laboratory’, NIE, DESM, NCERT, on July 24-28, 2023 and again on October 09-13, 2023.

Prof. Ravi Toteja delivered a talk on ‘Importance of UG internships and Research’, organized by NIEPA on March 01, 2024.

Placement Details

Total 33 students were placed during the year 2022-23 along with 31 students being enrolled in various internships.

Number of Companies visited for campus recruitment

46 companies visited the campus in the year 2022-23. Some of the companies visiting the campus were Schneider Electric, Bajaj Finance, Axis bank, First India life Insurance, Beryl India, Radiant Tech Solutions, Aditya Birla Capital Limited, Unbundl, Tata Strive, L’Oreal Sustainability Challenge, Bolt IoT, BookWithUVA, Muskurahat Foundation, RTS Manpower, Flipkart, among others.

Extension and Outreach Activities

The Department of Education in Science and Mathematics launched the PRAYAAS (Promotion of Research Attitude in Young and Aspiring Students 2023-2024) scheme. Under this scheme, school students submitted research projects in collaboration with colleges. Lovely Public Sr. Sec. School, P.D. Vihar, in collaboration with ANDC, worked on the project "Evaluation of Digested Sludge from Sewage Treatment Plant (STP) as Fertilizer and Safe Usage in Crop Production and Land Reclamation." Two students participated, and the project received a Rs. 50,000 grant.

ANDC organized a One Day Inter-College Workshop on "Rearing and Breeding of Zebrafish: Opportunity and Scope" on September 23, 2023, for students from various University of Delhi colleges. Participants learned zebrafish husbandry, genetics, and techniques, fostering interest in zebrafish research.

A one-day ISME-sponsored workshop on "Scientific Writing and Communication" was jointly organized by ANDC, University of Delhi, and PhiXgen Pvt. Ltd. on February 13, 2024, under the aegis of IQAC and DBT Star College Scheme. This workshop aimed to upskill students in scientific writing and publishing in high-impact journals. It covered elements of scientific papers, manuscript formats, peer review, and funding. Ninety-seven students and about 20 faculty members attended.

UBA and NSS organized Thalassemia Awareness Program at various locations in Delhi and Uttar Pradesh, including at Shyama Prasad Sarvodaya Vidyalaya Chitranjan Park Delhi on May 11, 2023 and Ganga Ram Hospital (invited by Thalassaemic India 35 years Old NGO for thalassemia to showcase our work) on May 09, 2023. Cancer screening camps were also organized.

A river cleaning drive was conducted in collaboration with YSS foundation at Kalindi Kunj Ghat on September 24, 2023. 75 pairs of clothes were donated among the needy people and 50 book and stationery sets were distributed among the needy children. A whiteboard along with essential elements was donated to a school in Noida dedicated to the needy children.

An Electoral Awareness Survey was conducted on September 24, 2023 in Kalkaji Constituency and 90 people were surveyed out of which 22 were found to have no voter ID cards. Their online registration for the same was completed by our volunteers.

A cleanliness drive was conducted in Govindpuri on October 01, 2023 to mark the eve of Gandhi Jayanti. Volunteers devoted 1 hour to the cleanliness in Govindpuri area.

Library Development

The College Library has a total of 34849 number of books; subscribes to 19 Magazines and Journals and 607 New books were added during the year.

The library organized two two-day Annual Book Exhibitions from October 5-6, 2023, for faculty and students. Renowned publishers and book sellers such as Prentice Hall of India, Unilib Book Distributors Pvt. Ltd., Asian Book Centre, Narosa Publishing House, Pearson Education, S. CRehand and Co., Cambridge University Press, Orange Books International, Viva Books Pvt. Ltd., and Orient Blackswan Pvt. Ltd. participated in the exhibition and displayed their books. Additionally, on October 19, 2023, New Age International Pvt. Ltd. displayed their publications in the library and generously donated 33 books to the library.

A workshop on the E-Resources of Delhi University and UGC Inffibnet N-Lists was held on October 26, 2023, including faculty members, research scholars, undergraduate students, and library staff. Ms. Bhawna Vashistha from the Central Reference Library introduced participants to Delhi University's e-resources. The library offers internships to Library and Information Science students. From March 14 to April 20, 2023, Bachelor of Library and Information Science students from Indira Gandhi National Open University gained practical knowledge of library operations.

Faculty Strength

Permanent: 34; Temporary: 34; Ad Hoc: 38; Guest: 36

Financial Allocation and Utilization

Grants allocated: Rs. 48,20,00,000/-

Grants utilized: Rs. 48,20,00,000/-

ADITI MAHAVIDYALAYA

Brief History of the college

Situated on the outskirts of Delhi, Aditi Mahavidyalaya is the sole institution of higher learning for a cluster of 52 villages. Established in 1994, its mission is to empower women through education. With the dedication of its teachers, management, and staff, Aditi has established a significant presence within the University of Delhi. Quality education is particularly important for women, as it facilitates the realization of human rights and has a profound impact on families and society. Aditi Mahavidyalaya aims to empower rural women by providing quality education, while also catering to urban women and offering opportunities for all students to achieve their aspirations.

Starting with 200 students and a limited number of courses, the college has transformed over the past three decades. It now offers prestigious programs such as B.El.Ed. Honours Courses in Social Work, Geography, Hindi Patrakarita, and B.Com. The college's mission is to foster the holistic development of young women,

preparing them to meet the challenges of a changing world. With a dedicated and dynamic staff, both teaching and non-teaching, Aditi continues to excel by offering quality education and expanding its courses and student body. Under the aegis of the University of Delhi, Aditi Mahavidyalaya is committed to exploring new horizons and achieving greater success.

Major Activities and Achievements

The academic year 2023-24 has been a significant period in the history of Aditi Mahavidyalaya. The college received a B++ grade from NAAC accreditation and underwent a major facelift, involving substantial investments. Ten smart classrooms equipped with smart boards were added. The college hall was renovated with wooden cladding, eight air conditioners, a new JBL sound system, and elaborate stage lighting. Additionally, facilities such as Bhasha Kendra, two media laboratories, and a new computer lab have been introduced.

The limited space within the college was finely redesigned to enhance aesthetics and create areas for student activities such as poster-hanging, festoon placement, and other creative endeavors. The open-air theatre was adorned with Worli art by students, and an open metal shed for meditation was installed behind the stage. The administrative and accounts offices were updated with reorganized documents and files, and old electrical fixtures were replaced with LED lighting. Furthermore, the application for the Integrated Teacher Education Program (ITEP) is currently in progress.

Honours/Distinctions

Students

Aishwarya for Inter College Power lifting championship

Manju for Khelo India Kabaddi University games

Kusum for Senior State Kabaddi Championship

Salina for All India Shotokan Karate Championship

Publications

Scopus Indexed Journals

Bhatt, S., Singh, S., & Singh, S. (2023). Approximate Solution of Fourth Order Parabolic Equation using Splines. *Palestine Journal of Mathematics*, 12.

Sharma, M. C., Baxi, S., Sharma, K. K., Sharma, S. K., & Patel, S. (2023). Understanding the Impact of Industrialisation on Potable Water Quality in the Lower Shivalik Region of Himalayas and its Geographical Analysis. *Asian Journal of Water Environment and Pollution*, 20(3), 11–18

Sharma, M., Bahmani, S., & Sawariya, M. D. (2023). Legal Advocacy for all genders in Media practices: An Inclusive approach for Future Social Work Profession. *RESEARCH REVIEW International Journal of Multidisciplinary*, 8(3), 266-272.

Singh, N. (2023). Banaras and Resurrection, 1781 and 1799. *Studies in People's History*, 10(2), 197-211.

Singh, S., Aggarwal, A. & Singh, S. (2023). Alternating Direction Implicit Bi-Cubic Spline Technique for Two-Dimensional Hyperbolic Equation. *Palestine Journal of Mathematics*.

UGC Care-list Indexed Journals

Jain, S. (2023). An Exploratory Study of Knowledge About Modes of HIV Transmission Among Children Living With HIV/AIDS. *Indian Journal of Home Science*, 35(1), 199-207.

Sharma, M. (2023). Music & Sports: An Absolute Chemistry. *Journal of Visual and Performing Arts*, 25(4), 273-278.

Singh, S., Singh, M., & Kesarwani, P. (2023). Application Of Mandala Art For Suitability On Home Furnishing Products. *Home Science*, 35(1), 109.

Web of Science Indexed Journals

Lakra, P., Gahlawat, I. N., & Hussain, A. (2024). Millet Mania: Exploring Awareness and Consumption Patterns among College Students. *Mysore Journal of Agricultural Sciences*, 58(1).

Rani, S. (2023). Role of Youth in Peacebuilding and Prevention of Violent Extremism in India: A Social Inclusion Perspective.

Research Projects

University of Delhi, “Psycho-social predictors of drug abuse in Indian Society”. Sanctioned Amount of Rs. 10,000 lakhs. PI: Dr. Ritu Sharma.

Aditi Mahavidyalaya, “Building Awareness about Health, Nutrition and Life Skill Education among Adolescent Girls and Young Women”. Sanctioned amount of Rs. 10,000 lakhs. PI: Dr. Manisha Wadhwa.

Aditi Mahavidyalaya, “Effect of gender bias and self-efficacy on the mental wellbeing”. Sanctioned amount of Rs. 10,000 lakhs. PI: Prof. Priya Kanwar

Seminars Organized

Seminar entitled, ‘UPSC’, by Ms. Shubhangi Singh and Mr. Vijay Rane, faculty at GS Score, on October 6, 2023.

Seminar entitled, ‘Manovigyan mela’, by Mr. Hitesh Sanwal, CEO and Founder of Youth For Mental Health on October 27, 2023.

Seminar entitled, ‘Experience Milega Yhi Se’, by Ms. Sanjana, Founder of Studify Success, on October 31, 2023.

Webinar entitled, 'Stress Management Techniques to Manage your Hormones Naturally & Correction of Body Posture', by Dr. Garima Biswas, Founder of Omansh Health & Fitness Consultant Physiotherapist & Women Health Fitness Expert, Medical Committee in association with Department of Physical Education & Extensive Lecture Series Committee, on February 21, 2024.

Conferences Organized

Organised ICSSR sponsored International Conference titled 'India as a Global Leader in Peace Building' by University of Delhi and Media Adhyayan Kendra on June 27, 2022.

Organised workshop titled, ‘Resource Person: FDP on Principles of Culinary Sciences: Session Salads, Dressings and Dips on September 3, 2023.

Organised a one-day International Conference titled ‘The Ramayna’s wisdom in Modern Classrooms: Aligning with National Education Policy, by Bhasha Kendra, Hindi department and Akhil Bhartiya Sahitya Parishad on January 19, 2024.

Organized International Women’s Day conference titled, ‘Inspire Inclusion Invest in women and Accelerate progress’, on March 8, 2024.

Organized International Conference titled ‘Role of National Education Policy, 2020 In Women’s Empowerment, And International World Women Conference’ by Baku Girls University, Azerbaijan on March 7-8, 2024.

Organised International Conference on ‘Innovative Approaches to Assessment of Children of Foundation Levels in World children conference’, by Ozay Gunsul Children University and IKSAD Institute.

Seminar/Conference Presentations (National / International)

National

Rajeev Kaur and Nitu Rana presented paper titled ‘Inclusive Growth with Women Entrepreneurs: A Case Study of Indian MSMEs’ in the 74th All India Commerce Conference of the Indian Commerce Association on “One Earth, One Family, One Future” on December 13-15, 2023.

Nitu Rana presented paper titled, ‘A Study on Shree Ram’s Leadership Insights from the Ramayana, in the International Conference on “Sabke Ram- Vaishwik Sandarbh Mai Ram” on January 19, 2024 organised by Bhasha Kendra, Hindi Department and Akhil Bhartiya Sahitya Parishad.

National/ International MoUs signed

MoU with Research Review Publishers

Other Inter-Institutional Collaboration

Prof. Sandhya Vatsyayana visited as resource person on “डॉ निशंक का रचना संसार: रविवारीय कहानी वार्ता (संस्करण -९)”, organised by Himalaya Virasat Trust Uttarakhand on July 9, 2023.

Collaboration titled, ‘Principles of Culinary Sciences’, by Lady Irwin College and Guru Angad Dev Teaching Learning Centre S.G.T.B. Khalsa College, DU and Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT) on September 1-7, 2023.

Placement Details

Total 24 students were placed during the year 2022-23 along with 26 being enrolled in various internships.

Number of Companies visited for campus recruitment

29 Companies visited the campus in the year 2022-23

Extension and Outreach Activities

A poster-making competition was organized by Prof. Bharti Mohan and Dr. Nalini Singh on the Bhakti Movement in India. The submission date was September 27, 2023. The students created brilliant posters depicting various saints, their messages, and works.

An online talk show and discussion on "Vibhajan Vibhishika Smriti Pradarshini" was organized by Prof. Bharti Mohan and Dr. Nalini Singh on November 9, 2023. Students from the 1st and 2nd years submitted well-reviewed reports on the talk show.

The Nutrition & Health Education (NHE) and the Food Technology discipline of the Home Science Department organized an Inter-Discipline Italian Cuisine Competition under the G20 Presidency on December 12, 2023.

An elocution competition on the topic "Social Inequality in Independent India: A Review" was organized under the guidance of Prof. Bharti Mohan and Dr. Nalini Singh on February 5, 2024. Students actively participated in the event.

The Food Technology discipline organized a workshop on "Millet Mobile Kitchen" with BRAC: ICSSR Project on the Health Benefits of Millets.

Organised Inventory Management Workshop for teaching and Non-teaching Staff by Sh NK Mishra, on November 3, 2023.

Organised a 6h 30 min Certificate Course on Yoga and Sports Nutrition, by Dr. Vikram Singh.

Organised enhancement courses on 'Career Prospects in Skill Development', by Dr. Santosh Yadav, Assistant Professor.

Faculty Strength

Permanent: 38; Temporary: 15; Ad-hoc: 29; Guest: 36

Financial Allocation and Utilization

Grants Allocated: Rs.31,37,98,000/-

Grants Utilised: Rs.34,02,40,250/-

AHILYA BAI COLLEGE OF NURSING

Brief History of the College

The institute has undergone a remarkable journey from a School of Nursing to a College of Nursing. Initially established in 1936 as an integral part of Lok Nayak Hospital, the School of Nursing started with an intake of 15 students to meet the hospital's nursing requirements.

With the improvement in health infrastructure and the evolving demands of healthcare services, the school grew to become one of the largest Nursing Schools in Delhi, operating under the Delhi administration with an annual intake of 100 students. In 1994, the School of Nursing was upgraded to the College of Nursing and named Lok Nayak Jai Prakash College of Nursing. Later, it was renamed Ahilya Bai College of Nursing in honor of Ahilya Bai, the Holkar Queen of the Maratha Malwa Kingdom.

Major Activities and Achievements

During the academic year 2023-24, the department conducted various workshops and seminars in collaboration with the Ministry of Health and Family Welfare (MOHFW).

Seminars Organized

Seminar entitled, "Epidemiology of Mental Illness and Determinants of Mental Illness" and "An Overview of Major Mental Disorders," by Ellen Beck, Vice Principal, Ministry of Health and Family Welfare, on December 14, 2023.

Seminar entitled, "Levels of Prevention," by R.B. Rojha, Ministry of Health and Family Welfare, on December 15, 2023.

Seminar entitled, "Introduction to Pain and Its Classification," by Shobha Gusain, Ministry of Health and Family Welfare, on February 1, 2024.

Seminar entitled, "Management of Pain for Postoperative Patients," by Neelam Makhija, Ministry of Health and Family Welfare, on February 2, 2024.

Seminar entitled, "The Challenges for Multidisciplinary Multimodal Approaches for Pain Management," by Ritu Singh, Ministry of Health and Family Welfare, on February 3, 2024.

Conferences Organized

Organized conference on "Preventive Psychiatry" on December 14, 2023, by the Ministry of Health and Family Welfare.

Organized conference on "Pain Management" on February 1, 2024, by the Ministry of Health and Family Welfare.

Organized conference on "Care during Pregnancy and Labor" on March 14, 2024, by the Ministry of Health and Family Welfare.

Other Inter-Institutional Collaboration

Designated as Study Center (29006P) of Indira Gandhi National Open University, for running the Post Basic B.Sc. Nursing Programme.

Collaborated with the Ministry of Health & Family Welfare, Government of India, for the development of nursing services in India.

Collaborated with Maulana Azad Medical College for Pharmaco Vigilance Week (September 2024).

Extension and Outreach Activities

Students participated in the Health Mela in October 2024, the Hemophilia Awareness Program for care providers on February 6, 2024, at Lok Nayak Hospital, the Hepatitis Awareness Program at ILBS on March 20, 2024, and Avenues in Public Health on April 3, 2024, organized by IIPH, Delhi, and the Public Health Foundation of India.

AMAR JYOTI INSTITUTE OF PHYSIOTHERAPY

Brief History of the college

The Amar Jyoti Institute of Physiotherapy (AJIP) was established with a mission to address healthcare needs through physiotherapy education. Founded on the principles of scientific physiotherapy practice, AJIP prioritizes training future physiotherapists to prevent, identify, and treat movement dysfunction. Established in 1977, the institute has grown into a prominent institution offering undergraduate and postgraduate physiotherapy programs. AJIP's focus on research and continuous learning fosters an intellectual environment for both students and faculty.

Major Activities and Achievements

Yashasvi represented the Amar Jyoti Institute of Physiotherapy at a classical dance competition held at Aryabhatta College on April 25, 2023. Amar Jyoti Institute of Physiotherapy students participated in the Jesus & Mary College Sports Fest held on April 18-19, 2023, competing in table tennis, basketball, and football. A team of students from Amar Jyoti Institute of Physiotherapy participated in the Adamya Quiz held at Maitreyi College on April 10, 2023. Ms. Khooby Verma, Ms. Milli Sharma, Ms. Muskan Kandwal, and Ms. Samiksha Kemwal represented Amar Jyoti Institute of Physiotherapy in a debate competition titled "Social Media is Actually Making Us Less Social" held at Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences & Research, Balawala, Dehradun in April 2023. Ms. Deepanshi Sharma, a public motivational speaker was awarded recognition in the Global Ability Photography Challenge 2023 held at the State Art Gallery, Hyderabad in April 2023.

Honours/Distinctions

Faculty

Dr. Jeyanthi. S (PT)

presented a research paper and secured first position in the Professional category for the topic "Physical Fitness and Self-Esteem in Children with and without ADHD" at the national conference organized by The Indian Association of Physiotherapists - Women Cell Conference, Delhi, on August 6, 2023.

received the "Women of Excellence in Academics/Clinical/Research" award from The Indian Association of Physiotherapists - Women Cell Conference, Delhi, on August 6, 2023.

delivered a platform presentation on "Effectiveness of Neuro Linguistics Programming and Structured Exercises on Motor Skills, Physical Fitness, and Attention in Children with ADHD" at the International Conference of the World Confederation for Physical Therapy held in Dubai on June 2, 2023.

Dr. Sampada Jahagirdar (PT) presented a poster on "Functional Deficiencies Associated with Fear of Falls in the Older Adult" (PO-3-142) at the World Physiotherapy Congress 2023 held at the World Trade Centre, Dubai, from June 2-4, 2023.

Dr. Adarsh (PT) presented a case study on the "Effectiveness of Kabat Rehabilitation, Kinesiotaping Combined with Neuromuscular Facilitation Techniques in the Management of Sub-Acute Bell's Palsy" at PHYSIO CONNECT 4 held at Panjab University, Chandigarh, on March 30-31, 2024.

Dr. Shivam (PT)

presented a paper on the "Effect of Foam Rolling and Roller Stick on Hamstring Muscle Tightness: A Review of Literature" at the Global Association of Physiotherapy Conference held in October 2023 and was awarded third rank.

received the Best Clinician Award at the Global Association of Physiotherapy Conference held in Gurugram in October 2023.

presented a paper on the "Immediate Effects of Instrument Assisted Soft Tissue Mobilization (IASTM) on Hamstring Tightness, Endurance, Range of Motion, and Lower Body Power Among University Students" at the Indian Association of Physiotherapy Conference held in March 2024.

Publications

Scopus Indexed Journals

Agarwal, V., S, J., & Sharma, A. (2024). Letter to the Editor: Eccentric Versus Concentric Exercises in Patients With Rheumatoid Arthritis and Rotator Cuff Tendinopathy: A Randomized Comparative Study. *Annals of Rehabilitation Medicine*, 48(1), 1–2.

Subburaj, J., & Sharma, K. (2023). Development, translation, and psychometric evaluation of a questionnaire designed to explore knowledge, barriers, facilitators, and preferences to physical exercise in cancer survivors. *Cancer Survivorship Research & Care*, 1(1), 2287231.

UGC Care-list Indexed Journals

Chandrika Gautam, C., Prerna Mohan Saxena, P. M., Jeyanthi, S. (2024). Prevalence of Dizziness in people with neck pain and related disability: A Delhi/NCR based study. *International Journal of Research and Analytical Reviews*, 11, 175-180.

Research Projects

“Relationship of Core Muscle Performance with Static and Dynamic Balance in Young Adults”. PI: Tarun Kumar, Jeyanthi S, Nidhi Singh

“EMG Analysis of Scapular Muscles During Hand Grips Activity in Individuals with and Without Scapular Dyskinesia: A Comparative Study”. PI: Jeyanthi S, Aashish Yadav, Avni Joshi

“Development and Validation of a Questionnaire to Explore Knowledge, Attitude, and Practice Towards Exercise Among People Going to the Gymnasium”. PI: Aashish Yadav, Jeyanthi S

“Evaluating Pulmonary Function, Transversus Abdominis Strength, and Aerobic Capacity of Frontline and Healthcare Workers Wearing Masks: A Cross-Sectional Study”. PI: Jeyanthi S, Mansi Mittal

“Efficacy of Galvanic Vestibular Stimulation (GVS) and Vestibular Rehabilitation Exercises on Balance in Diabetic Patients with Vestibular Dysfunction”. PI: Prerna Mohan, Jeyanthi S,

Seminars Organized

Webinar entitled, “Research Paper Writing and Selection of Journal for Publication,” by Ms. Soma Bhattacharjee, Managing Director, International Journal of Convergence in Healthcare, on March 16, 2024.

Webinar entitled, “Advanced Rehabilitation in Clinical Practice for Sports Specific Injuries,” by Dr. Devashish Raturi (PT), Physio, Squash Extreme-SAI, on March 16, 2024.

Webinar entitled, “Veterinary Physiotherapy,” by Dr. Rupali Maheshwari (PT), Consultant Physiotherapist, Max Petz, East of Kailash, on March 23, 2024.

Seminar/Conference Presentations (National / International)

National

Nandini Narang

presented a paper titled, “Effect of Cardiorespiratory Fitness on Obesity Indices, Attention, and Academic Motivation in Adolescents” at the 9th International Conference of Physical Therapy held at AIIMS on December 23-24, 2023.

presented a paper titled, “Impact of BMI on Transverse Abdominis Activation and Postural Awareness in College Students: A Comparative Study” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

Vanshika Agarwal presented a paper titled, “Prevalence of Quadratus Lumborum Tightness Among Young Adults: A Cross-Sectional Study” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

Jyotsana Nagar presented a paper titled, “Effect of Guided Imagery on Anxiety and Stress Amongst Adults: A Systematic Review” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

G. Sneha presented a paper titled, “Effect of Exercise and Yoga on Individual and Work-Related Factors Among Computer Users: A Systematic Review” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

Nishi Jain presented a paper titled, “Effect of Action Observation Therapy on Balance and Cognition in the Elderly: A Case Series” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

Khushboo Kashyap presented a paper titled, “Prevalence of Mental Health Issues and Factors Affecting Social Isolation Among Young Adults” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

Shalini Kumari Gupta presented a paper titled, “Effect of Kinesiotaping on Children with Cerebral Palsy: A Systematic Review” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

Radhika Sinha presented a paper titled, “Efficacy of Exercises and Therapeutic Modalities in Piriformis Syndrome: A Systematic Review” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

Aarshia Chatterjee, Dhruv Gupta, Bhavika Ahuja, Devansh Singh, and Naila Irfan presented a paper titled, “Are We Doing Enough for Adolescents in India?” at the 61st National Conference of the Indian Association of Physiotherapists (IAP) held in Dehradun on March 8-10, 2024.

Placement Details

Total 70% of the students were placed during the year 2022-23.

Extension and Outreach Activities

Dr. Preksha Sharma (PT) and Dr. Urvashi Kabeer (PT), along with BPT students, organized a free physical fitness testing camp at R.S. Public School, Vinod Nagar, on March 6, 2024. The objective of the camp was to analyze the physical fitness levels of the children.

Library Development

The library currently houses a total of 4,557 books, with the recent addition of 43 new titles specifically for the BPT program. Additionally, the library now includes six journals to further support academic research and learning.

Faculty Strength

Permanent: 0, Temporary: 7, Ad Hoc:6, Guest: 27

ARYABHATTA COLLEGE

Brief history of the College

Aryabhatta College, established in the academic session 2014-15, is directly maintained by the University of Delhi. Previously known as Ram Lal Anand College (Evening), it was founded in 1973. Located adjacent to the South Campus of the University of Delhi, Aryabhatta College is nestled in the scenic surroundings of the South Delhi section of the Aravali range.

As a co-educational institution, Aryabhatta College offers undergraduate courses in Humanities, Arts, Science, and Commerce, currently accommodating approximately 2,200 students. The college is named after Aryabhata, a distinguished mathematician and astronomer renowned for his contributions to the fields of mathematics, kinematics, and spherics. His seminal works, *Aryabhatiya* and *Arya-siddhanta*, have been invaluable to the scholarly world. Aryabhatta College embodies the spirit of its namesake by striving to reach the highest standards of knowledge and education.

Major Activities and Achievements

The Psychology department of Aryabhatta College was ranked No. 6, and the college itself was listed among the top 10 emerging science colleges according to the India Today Ranking. The college published its first book, "Vishwa Guru Bharat." The college hosted 'Samvad: Dialogue with Students' on

contemporary issues, featuring the Hon'ble Minister of External Affairs Dr. S. Jaishankar, along with Smt. Meenakshi Lekhi and Sh. Virendra Sachdeva.

As a participant in the prestigious Study in India Programme, Aryabhata College has expanded its prospects for foreign student enrollment, thereby enhancing its global profile. Additionally, the college has completed permanent appointments in 10 departments and has made significant non-teaching recruitments. These accomplishments highlight Aryabhata College's commitment to academic excellence and its continuous efforts to provide quality education and opportunities for both students and faculty.

Honours/Distinctions

Faculty

Dr. Tripti was engaged in a research collaboration with the London School of Economics, funded by the Society for Psychological Study of Social Issues in the United States and facilitated by the London School of Economics.

Under the mentorship of Dr. Naveen Jain, two students have been awarded M. Phil and Ph.D degrees.

Students

Kalpana Pandey (BA Programme) secured the 108th position in the UPSC AIR

Publications

Scopus Indexed Journals

Ahuja, O., Çetinkaya, A., & Jain, N. K. (2020). Analytic functions with conic domains associated with certain generalized q-integral operator. arXiv preprint arXiv:2012.13776.

Anand, S., Jain, N. K., & Kumar, S. (2023). Normalized analytic functions with fixed second coefficient. *The Journal of Analysis*, 31(3), 1917-1938.

Deb, S. (2023). Household Assets and Indebtedness in States of India. *Social Change*, 53(3), 399-406.

Deb, S. (2024). Challenges for Higher Education in the Indian States. *Social Change*, 54(1), 118-124.

Kumar, S., Prasad, R. P., Nishad, C., Tiwary, A. K., & Khan, F. (2023). Analysis and chaos synchronization of Genesio-Tesi system applying sliding mode control techniques. *International Journal of Dynamics and Control*, 11(2), 656-665.

Malik, G., Khan, T., & Mursaleen, M. (2023). Approximation properties and q-statistical convergence of Kantorovich variant of Stancu type Lupaş operators. *Filomat*, 37(29), 10107-10124.

Piramanayagam, P., M, A. ., Swami, R., Mahajan, V. ., Jayapriya, S. & Singh, J. K. . (2024). Circular Economy Strategies For Resource Efficiency And Sustainable Development In Manufacturing Industries. *Migration Letters*, 21(S8), 919–931.

Raheja, S., Gupta, R., & Yadav, G. (2024). Spiritual Intelligence, happiness and success of students in select higher education institutions of University of Delhi. *Environment and Social Psychology*, 9(6).

Singh, D., Kumar, M., & Yadav, T. (2024). RAZOR: A Lightweight Block Cipher for Security in IoT. *Defence Science Journal*, 74(1).

UGC Care-list Indexed Journals

Lahiri, S. (2023). Working as domestic Maid - Survival strategy of Poor Women. *ArthaShashtra- Indian journal of Economics and Research*, 12(3).

Thokchom H.S., Konsam, G.D. (2024). Importance of Diligent Crime Scene Investigation: A Forensic Psychology Perspective. *Ajasra*, 13(1), 380-385.

Research Projects

Indian Council of Social Science Research (ICSSR), “Implementation of NEP 2020: An Assessment of Selected Educational Institutions”. Sanctioned Amount of Rs. 4,00,000. PI: Prof. Manoj Sinha.

Ministry of Education, Government of India, “IKS Shikshan Prashikshan Kendram for Ancient Indian Mathematics & Indian Astronomy”. Sanctioned Amount of Rs. 18,00,000. PI: Dr. Priti Jagwani.

Seminars Organized

Seminar entitled, 'Gandhian Satyagraha for the 21st Century', by Prof. Raghuram Raju, IIT Tirupati, ICSSR, on February 13, 2023.

Seminar entitled, 'Empowering Youth with Constitutional Responsibilities & Duties', by Shri Naresh Bansal, Member of Parliament, Rajya Sabha; Dr. Seema Kaul Singh, Director, ICPS; Shri Ravindra Garimella, Former Joint Secretary, Lok Sabha Secretariat; and Dr. Babita Parasain, Joint Secretary, Lok Sabha Secretariat, Self-Funded, on September 1, 2023.

Seminar entitled, 'Gandhi and His Critics - A Contemporary Discourse', by Prof. Douglas Allen, Philosopher, USA, ICPR, on October 4, 2023.

Seminar entitled, 'Business Analytics', by Anil Swarup, Former Secretary of India, Ministry of Coal, Self-Funded, on March 5, 2024.

Seminar/Conference Presentations (National / International).

National

Surajit Deb presented a paper titled, ‘Emerging Pattern of City Formation in Global South: A Comparison between Asian and African Urbanization Process’ at the International Conference on ‘Sustainable and Inclusive Urban Development in Global South,’ Technical Session 6, organized by NITI Aayog (GoI), DURP (University of Florida), Institute of Human Development, CSRD (JNU), and National Institute of Urban Affairs, held between August 10-12, 2023.

Suvojit Lahiri Chakravarty presented a paper titled, ‘Monetary Policy Transmission to Bank's Interest Rates in India - A Comparative Study of the Base Rate, MCLR, and EBLR Regimes’ at the International G20 Conference on "Resilient Approaches for New World Order and Viksit Bharat" held on September 25, 2023, at Dr. Ambedkar International Centre, New Delhi.

Tripti presented a paper titled, ‘An Empirical Analysis of Sustainable Consumption and Production Practices in India as Compared with the World’ at the Two Days National Seminar on ‘Socio-Economic Transformation, Inclusive and Sustainable Development’ held at Dr. B.R. Ambedkar International Centre, Ministry of Social Justice and Empowerment.

Other Inter-Institutional Collaboration

Two international lectures were organized by Gandhi Study Circle (GSC). The first lecture was delivered by Prof. Uday Singh Mehta from New York University on the topic of Gandhi and Bhagat Singh on the question of violence. The second lecture was given by Koenraad Elst from Belgium, discussing Sitaram Goel's history writing and the Ayodhya movement. This lecture was chaired by Prof. Dhrub Lohia, an astrophysicist from Cambridge.

The Incubation Centre at Aryabhata College plays a pivotal role in fostering a culture of entrepreneurship and innovation. Through a partnership with the Atal Incubation Centre of JNU, the Centre enhances its network and resources for student entrepreneurs.

Additionally, the college has collaborated with the Indian Institute of Remote Sensing, providing free enrollment opportunities for our students.

Placement Details

Total 14 students were placed during the year 2022-23.

Number of Companies visited for campus recruitment

13 companies visited the college in the year 2022-23.

Extension and Outreach Activities

The NSS unit of Aryabhata College organized various activities from April 13, 2023-March 11, 2024. During this period, the National Service Scheme (NSS) Aryabhata Unit conducted a dynamic array of events which included World No Tobacco Day, World Environment Day, Visit by the Minister of External Affairs, Centenary Celebrations of the University of Delhi, Angdaan Mahotsav, Independence Day celebrations, Hindi Diwas, Visit to the Parliament, Unity Day, Constitution Day among others.

Project Ibtida, Palash, and Utkarsh continued to achieve the threefold objectives of ENACTUS: targeting environmental concerns, providing market-based solutions, and uplifting marginalized groups as beneficiaries. Key initiatives included: Skill enhancement sessions for underprivileged women and victims of human trafficking in collaboration with STOP, Prabhaav, Etasha, and Khushil NGOs, Environmental initiatives with "Greenbandhu" to make compost from floral waste, and promotion of 100% handloom cotton with Sri Gyan Vidya Samiti, Loom Key, and Banni Handcrafts, Production and sale of hemp bags on campus, benefiting women from STOP NGO and the Thousand Dreams Foundation Establishment of an efficient composting center in the college through Project Palash among others.

Faculty Strength

Permanent: 8; Temporary: 82; Ad Hoc:0; Guest: 20

Financial Allocation and Utilization

Grants allocated: Rs. 43,49,21,000/-

Grants utilized: Rs. 31,03,90,117/-

ATMA RAM SANATAN DHARMA COLLEGE

Brief History of the College

Atma Ram Sanatan Dharma (ARSD) College, established in 1959 under the University of Delhi, has carved a distinguished legacy of academic prowess and holistic development. Rooted in the principles of Sanatan Dharma, the college has steadfastly upheld values of truth, righteousness, and universal welfare since its inception. Over the years, ARSD College has achieved significant milestones, including accreditation with an A++ grade by NAAC and recognition as the 6th best institution in India by NIRF, attaining the highest score of 3.77.

With a commitment to fostering a supportive and inclusive environment, ARSD College places a strong emphasis on nurturing quality human resources and cultivating innovative ideas that benefit its students. The institution's growth trajectory reflects its dedication to aligning with contemporary educational demands, promoting undergraduate research, entrepreneurial initiatives, and skill development. ARSD College prides itself on its motto, "Tejasvi-naavadhitam-astu," symbolizing the pursuit of radiant learning experiences for its diverse community of students, faculty, and staff. As ARSD College looks to the future, it continues to expand its academic programs, extracurricular offerings, and support services, ensuring each student achieves their full potential.

Major Activities and Achievements

Recently, the college hosted the Rangsheersh Jaidev Theatre Festival from January 29-31st, 2024, where it commemorated the 20-year journey of its Dramatics Society, Rangayan, and launched the book "Jagdishchandra Mathur: Rang Paridrishya," The event saw releases by notable figures from the University of Delhi.

Further demonstrating its excellence, the college clinched several awards at the 66th Annual Flower Show of the University of Delhi, including 1st prize in French marigold and Leafy Plant categories, and 3rd prize in Pansy, alongside commendations in Ranunculus, Succulents, Cinanaria, and Mesembryanthemum. Additionally, student Himanshu Nandal set a new national record, winning three gold medals at the National Para Swimming Championship in Bhopal. Moreover, the college's in-house Interdisciplinary Research and Innovation Projects Scheme, "Prabodh," has garnered significant participation and enthusiasm from its faculty.

Honours/Distinctions

Faculty

Prof. Prashant Singh, Department of Chemistry, has been recognized among the top 2% Influential Scientists worldwide, as published by Stanford University and Elsevier.

Dr. Yogesh Kumar, Assistant Professor of Physics, has also been acknowledged among the top 2% Influential Scientists globally, according to the publication by Stanford University and Elsevier.

Publications

Scopus Indexed Journals

Aalam, S. M., Sarvar, M., Sadiq, M., & Ali, J. (2024). A Highly Sensitive Surface-Modified Porous Carbon Nanotube-Based Sensor for Ammonia Gas Detection. *ACS omega*, 9(4), 4486-4496.

Alka, Vishvakarma, V. K., Yadav, S., Singh, P., & Jain, P. (2023). In Vitro, In Silico, ADME and Theoretical Analysis of Mn (II) and Co (II) Complexes Derived from Methyl-(Z)-N'-Carbamothioylcarbamohydrazonate Schiff Base Ligand. *Chemistry & Biodiversity*, 20(6), e202300042.

Álvarez-Montaña, V. E., Kumar, M., Sharma, S., Chourasia, R. K., Kumar, P., Siqueiros, J. M., & Herrera, O. R. (2023). A recent look at high-entropy ceramics based on doping engineering/technology and the future scope of their novel applications. *Materials Letters*, 349, 134785.

Aslam, M., Pandey, G., Deshwal, N., Kumar, A., Kumari, K., Bahadur, I., ... & Soleiman, A. A. (2024). Study the solubility of pharmaceutical ingredients and their eutectic mixtures: An in-depth density functional theory and molecular dynamics simulations approaches. *Journal of Molecular Liquids*, 397, 124070.

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Avirdi, E., Paumo, H. K., Kamdem, B. P., Singh, M. B., Kumari, K., Katata-Seru, L. M., & Bahadur, I. (2023). Influence of cation (imidazolium based ionic liquids) as “smart” stabilizers for silver nanoparticles and their evaluation as antibacterial activity on *Escherichia coli*, *Staphylococcus aureus* and *Enterobacter cloacae*. *Journal of Molecular Liquids*, 369, 120935.

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Bharati, M., Rana, L., Gupta, R., Sharma, A., Jha, P. K., & Tomar, M. (2023). Fabrication of Surface Acoustic wave resonator as Acousto-optic Modulator. *Optical Materials*, 142, 114088.

Bharati, M., Rana, L., Gupta, R., Sharma, A., Jha, P. K., & Tomar, M. (2023). Realization of a DNA biosensor using inverted Lamb wave MEMS resonator based on ZnO/SiO2/Si/ZnO membrane. *Analytica Chimica Acta*, 1249, 340929.

Bharati, M., Rana, L., Gupta, R., Sharma, A., Jha, P. K., & Tomar, M. (2023). Simulation and Fabrication of Higher-Mode Lamb Wave Acoustic Devices for Sensing Applications. *physica status solidi (a)*, 220(14), 2200760.

Chitrlekha, Gaurav, S., Kotnala, R. K., Shankar, S., & Singh, A. P. (2024). Dielectric, Impedance, Magnetic and Magnetocapacitance Investigations in ferrite–manganite nanocomposites for Hydroelectric Cell applications. *Emergent Materials*, 7(3), 1151-1171.

Chopra, A. B., & Dixit, V. S. (2023). Detecting biased user-product ratings for online products using opinion mining. *Journal of Intelligent Systems*, 32(1), 20229030.

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- Gupta, V., Malik, R., & Kumar, L. (2023). Highly efficient and cost-effective polyaniline-based ammonia sensor on the biodegradable paper substrate at room temperature. *Materials Chemistry and Physics*, 310, 128388.
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UGC Care-list Indexed Journals

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Research Projects

- SERB: Development of thermoelectric energy harvester using Indium selenide thin film. Sanctioned amount of ₹32.00 lakh. PI- Dr. Anjali Sharma Kaushik
- SERB: Predictive online convex optimization with online perturbed constraints. Sanctioned amount of ₹22.70 lakh. PI- Dr. Priyanka Yadav.
- SERB: New strategies for Regioselective C-H functionalization of Aromatic and Heterometric Precursors. Sanctioned amount of ₹42.44 lakh. PI- Prof. Sunita Bhagat.
- CSIR: Preparation of manganite-ferrite nanocomposites for sensor applications. Sanctioned amount of ₹16.6 lakh. PI- Dr. Shankar S. Subramanian.
- DU: Archiving Gandhi's Buniyadi School: Towards an Inclusive and Sustainable School System. Sanctioned amount of ₹18.25 lakh. PI- Dr. Gautam Choubey.

Patents Filed/Granted

Dr. Anjali Sharma Kaushik has been granted a patent for her invention titled "A Conductometric Hydrogen Gas Sensor" under the provisions of the Patents Act, 1970. The patent is effective for a term of 20 years starting from February 20, 2018.

Seminars Organized

Seminar titled "Quality Control of Variant Peptides in Proteogenomics-Catching the (Un) Usual Suspects" by Debasis Dash, Chief Scientist, CSIR-IGIB, on July 4, 2023.

Maths Fiesta presentation on "Number Theory and Cryptography" by Shanta Laishram, and "Actuarial Science: Career Path, Opportunities and Scope" by Mr. Paraj Goyal, Associate Director, Marsh McLennan, on October 3, 2023.

PCOS Awareness Program and Mental Health and Wellness Committee collaboration by Yukti Wadhawan, MBBS, MS, FRM, FICOG, FIMSA, F.MAS, from Yukti IVF and Gynaecology Centre, New Delhi, on February 7, 2024.

Presentation on "Traditional Knowledge: Relevance and Protection" by Viswajanami J Sattigeri, Head of CSIR-Traditional Knowledge Digital Library Unit, on National Science Day, February 28, 2024.

Lecture on "Artificial Intelligence and Digital Economy: Opportunities and Challenges" by Sachin Kumar, Cluster Innovation Centre, University of Delhi, at Vidyut: Annual Fest of the Department of Electronics, on March 18, 2024.

Seminar titled "Indian Economy: Issues and Challenges" by Arun Kumar, CESP, JNU, on March 21, 2024.

Conferences Organized

Organized "International Conference on Chemical and Biological Sciences (ICCBS)" on January 27-29, 2024, by ARSD College. Keynote speakers included D.S. Rawat, Kumaun University, Nainital, Uttarakhand; Alexander Brown, University of Alberta, Canada; and Akhilesh Verma, University of Delhi, Delhi.

Organized "Two-Day Inter-disciplinary International Seminar on the Theme 'Diverse Landscape of Indian Culture: Continuity with Change'" on February 8, 2024, by ARSD College in collaboration with Sahitya Kala Parishad. Keynote speaker was Kunal Chakrabarti, J.N.U., New Delhi. Speakers included Saarthak Singh, Ghent University, Belgium; Ravikant, Centre for the Study of Developing Societies, Delhi; and Bandana Jha, J.N.U., New Delhi.

Organized "International Conference on India's Role as a Global Business Superpower: Unleashing the Power of the Indian Business Model" on March 13, 2024, by Mahalaxmi Group. Keynote speakers included Mr. Arvind Mehta (Chief Guest), Secretary 15th Finance Commission (IAS Retd), Mr. Rishi Mohan Bhatnagar (Keynote Speaker), President, LAVA International, and Hon. Prof. T. Mangaleswaran (Panelist), Vice-Chancellor, University of Vavuniya, Sri Lanka among others.

Organized "International Conference on India's Role as a Global Business Superpower: Unleashing the Power of the Indian Business Model" on March 13, 2024, by Mahalaxmi Group. Keynote speakers included Mr. Arvind Mehta (Chief Guest), Secretary 15th Finance Commission (IAS Retd), Mr. Rishi Mohan

Bhatnagar (Keynote Speaker), President, LAVA International, Hon. Prof. T. Mangaleswaran (Panelist), Vice-Chancellor, University of Vavuniya, Sri Lanka among others.

Organized "2nd International Conference on Recent Advances in Functional Materials (RAFM-2024)" on March 14-16, 2024, by ARSD College. Keynote speakers included Prof. Jonathan Guerrero Sanchez, Universidad Nacional Autónoma de México; R. K. Kotnala, NPL, New Delhi, India; and Devendra Kumar, IIT (BHU), Varanasi.

Seminar/Conference Presentations (National / International)

National

Gautam Choubey presented a paper titled "Nature in Bhojpuri Literary Imagination" at Sahitya Akademi and GGSIP University on August 31, 2023.

Ms. Shibani Phukan presented a paper titled "Negotiating Identity: Short-Fiction by Contemporary Assamese Women" at the conference on "Re-imagining Northeast Writing and Narratives: Literature, Border, Ethnicity and Cultural Imagination," organized by the English Department, Jamia Millia Islamia University, on November 10, 2023.

Priyanka Yadav presented a paper titled "Online Interval-Valued Convex Optimization" at the G-20 Themed International Conference on "Variational Analysis and Optimization with Applications (ICVAOA-2023)" held at the Department of Mathematics, Aligarh Muslim University, Aligarh, India, during September 23-25, 2023.

Anjali Sharma Kaushik

presented a paper titled "WO₃ Coated Quartz Crystal Microbalance Sensor for Room-Temperature Sensing of NO₂" at the International Conference on Advanced Functional Materials and Devices (AFMD)-2024 at SRM Institute of Science & Technology, Kattankulathur, Chennai, Tamil Nadu, on February 26-29, 2024.

presented a paper titled "2D MoS₂ Layers: Outstanding Candidate for Environmental Monitoring and Energy Harvesting" at the 14th International Conference on Functional Materials and Devices held at Nanotechnology Research Centre (SRM), SRMIST, Kattankulathur, India, from February 26-29, 2024.

National/International MoUs Signed

Various MoUs have been signed with different institutions that entail exchange programme, short-term modules, summer workshops, collaborative research and global networks.

MoU with University of the Philippines Manila, 2023, 5 years

MoU with University of Delhi, School of Open Learning (Campus of Open Learning), Bhaorao Deoras Sewa Nyas, and Atma Ram Sanatan Dharma College, 2023, 5 years

MoU with Aditya Birla Trust- Mpower, 2023, 1 year

MoU with Government Post-graduate College, Berinag (Pithoragarh), Uttarakhand under Vidya Vistar Scheme (V2), Government Post-graduate College, Karanprayag, Devtoli, Chamoli, Garhwal, Uttarakhand under Vidya Vistar Scheme (V2), 2021, 5 years

MoU with NSUT, 2021, Ongoing

MoU with National Productivity Council, 2021, 5 years

MoU with Shri Ramswaroop Memorial University, Barabanki, U.P., 2019, 5 years

MoU with SDRS New Delhi, 2018, Ongoing

MoU with NSS ARSD & Connecting Dreams Foundation, 2017, Ongoing

MoU with Micro, Small and Medium Enterprises (MSME), 2016, Ongoing

Other Inter-Institutional Collaboration

Two-Week Online Bilingual Interdisciplinary Refresher Course titled, ‘Indian Folk Traditions: A tapestry of Diversity’, organized by IQAC Ministry of Education, Pandit Madan Mohan Malviya National Mission on Teachers and Training, Teaching learning center, Ramanujan College, from October 25 to November 8, 2023.

One-Week National Online Faculty Development Program (FDP) titled, ‘Advanced Python Programming for All’, organized by IQAC & Department of Electronics of Atma Ram Sanatan Dharma College in collaboration with TLC Ramanujan College under PMMMNMTT, from October 9 -15, 2023.

15-Day Workshop titled, ‘Geeta Avbodhan evam Sanskrit Sambhashan Karyshala’, organized by IQAC and Sanskrit Department of ARSD College in collaboration with Sanskrit Bharti Delhi Prant, from February 24- March 12, 2024.

Placement Details

Total 347 students i.e. 26.6% were placed during the year 2022-23.

Number of Companies visited for campus recruitment

129 companies visited the campus in the year 2022-23 such as Alea Consulting, Alpha Consulting, AON, Bank of America, Chegg, GIST, Global Foundries, Global Step, GMI Research, and HCL among others.

Extension and Outreach Activities

A paper recycling workshop meticulously organized by Enactus ARSD took place on February 2, 2024. The objective was to educate participants about paper recycling and instill eco-conscious behavior.

Enactus ARSD participated in the Enactus National Exposition from June 15- July 9, 2023. They showcased NextGen excellence and competed for the prestigious Enactus India 2023 Champion title. Enactus ARSD competed in the Early-Stage Competition with Project Avni, focusing on waste management. Avni’s 4-tier strategy targets e-waste, glass/plastic, paper, and organic waste, aiming to revolutionize waste handling culture and enhance management techniques using innovative educational approaches.

Enactus ARSD, in its constant efforts towards inclusion of differently-abled individuals, organized a visit to Action for Ability Development and Inclusion (AADI), an NGO, on February 23, 2024. The visit aimed to collaborate with AADI to offer their community a source of income through Enactus products and encourage their participation in the social entrepreneurship journey.

SHAKTI: The Women Development Cell of Atma Ram Sanatan Dharma College, in collaboration with the Mental Health and Wellness Committee, organized an interactive session on PCOS (Polycystic Ovarian Syndrome) awareness on February 7, 2024.

The Mental Health and Wellness Committee, in collaboration with the Internal Quality Assurance Cell (IQAC) and Enactus ARSD, hosted a session on World Mental Health Day, October 10, 2023. Neeta Azad initiated the event with a pledge on mental health. Two speakers, Mrs. Surbhi Khurana and Mrs. Sumeeta Setia, counsellors from Shreetara School of Well Being, addressed mental health issues in a relatable manner.

In late September, Enactus ARSD took proactive steps to address the challenges faced by residents of Burari Village. On September 24, 2024, they partnered with the Sampark Saathi Foundation to organize the transformative “Samasya Camp.” This event brought together a dedicated team of medical professionals who provided free medical check-ups to villagers. Detailed medical records were created for each individual to enhance access to future medical care.

NSS ARSD regularly organizes extension and outreach activities such as blood donation camps, cleanliness drives, health awareness campaigns, and voter ID registration camps.

Library Development

In the academic year 2023-24, the Library acquired 1,746 books, 23 periodicals, and 38 magazines across various disciplines to meet user information needs. Currently, its collection stands at about 125,336 books, enriched by donations from organizations and faculty members. The College Library offers access to University of Delhi's e-resources and subscribes to the NLIST project by INFLIBNET for remote access to scholarly content. It is also registered with DELNET to provide loaned books and online resources. Using SOUL 3.0 Integrated Library Management Software, the Library automates operations and includes an OPAC module for document retrieval. Additionally, an Electronic security system with RFID technology ensures asset security.

With 35 PCs for accessing resources and 2 dedicated to OPAC, the Library caters to differently abled students with specialized equipment like JAWS software. It accommodates around 150 students and 30 faculty members. The Library annually trains students from University of Delhi, Delhi Library Association, and IGNOU, offering practical experience across departments. Organized by IQAC, events include book exhibitions and record management workshops for staff. Library staff actively publish research papers. Recent upgrades include expanded reading room capacity and an IP-based CCTV system for enhanced security.

Faculty Strength

Permanent: 16, Temporary: 176, Ad-Hoc: 2, Guest: 16

Financial Allocation and Utilization

Grants allocated: ₹ 78,51,52,000/-

Grants utilized: ₹ 78,44,14,639/-

BHAGINI NIVEDITA COLLEGE

Brief History of the College

Bhagini Nivedita College (BNC), established in August 1993 as a constituent college of the University of Delhi, stands as a beacon of education in the rural outskirts of South West Delhi. Named after Sister Nivedita, a devoted disciple of Swami Vivekananda renowned for her dedication to women's education, the college began with B.A. (Pass) and B.A. (Hons.) Hindi courses, gradually expanding its offerings. BNC pioneered the introduction of the Apparel Design and Construction course in 1997, marking its commitment to innovative education.

Over the years, it evolved into an arts, commerce, and science college, introducing B.Sc. Physical Sciences in 2007 and embracing the semester system in 2010. The adoption of the Four Year Undergraduate Programme (FYUP) in 2013 brought additional disciplines, later phased out in 2015-16 as per UGC directives. Today, BNC offers a range of undergraduate programs, including B.A. and B.Sc. Honours courses, as well as a B.A. Programme and B.Com Programme, attracting a growing number of students annually. With a dedicated faculty of 76 members and robust support staff, BNC continues to uphold its reputation for academic excellence and holistic development, supported by state-of-the-art laboratories and infrastructure.

Honours/Distinctions

Faculty

Capt. Parminder Sehgal was honored with the National Teachers Award for outstanding contributions to education by the Bhagidari Jan Sahyog Samiti on October 7, 2023.

Dr. Vishal Chaudhary from BNC, University of Delhi, was recognized as one of the top 2% scientists worldwide by Stanford University.

Dr. Vishal Chaudhary received the prestigious Agents of Change Award 2023 from the Elsevier Foundation, an international accolade among material scientists globally.

Dr. Reeta Namdev was felicitated with the Sashakt Mahila Samman in Tokyo, Japan, on March 8, 2024, by the international Hindi magazine "Gunj."

Dr. Reeta Namdev also received the Rashtriya Sashakt Shiromani Samman on March 16, 2024.

Publications

Scopus Indexed Journals

Bhadola, P., Chaudhary, V., Markandan, K., Talreja, R. K., Aggarwal, S., Nigam, K., ... & Khalid, M. (2023). Analysing role of airborne particulate matter in abetting SARS-CoV-2 outbreak for scheming regional pandemic regulatory modalities. *Environmental Research*, 236, 116646.

Chaudhary, V., Rustagi, S., & Kaushik, A. (2023). Bio-derived smart nanostructures for efficient biosensors. *Current Opinion in Green and Sustainable Chemistry*, 42, 100817.

Chaudhary, V., Talreja, R. K., Rustagi, S., Walvekar, R., & Gautam, A. (2024). High-performance H₂ sensor based on Polyaniline-WO₃ nanocomposite for portable batteries and breathomics-diagnosis of irritable bowel syndrome. *International Journal of Hydrogen Energy*, 52, 1156-1163.

Kumar, A., Rustagi, S., Malik, S., Choudhary, P., Khan, Z. S., Allam, A. Y., ... & Chaudhary, V. (2023). Highly potent antioxidant/antibacterial biogenic ZnO nanoparticles-enabled nano-scavenger reinforced by Aegle Marmelos (Linn) Rind's extract. *ECS Journal of Solid State Science and Technology*, 12(7), 077003.

Mulla, R., Nayak, S., Selvaraj, M., Chaudhary, V., & Khosla, A. (2023). Insights into structural features and thermoelectric properties of layered oxychalcogenides, BiCuOCh (Ch= S, Se, Te): promising green materials for energy conversion. *Materials Research Innovations*, 27(4), 267-280.

Phor, L., Malik, J., Sharma, S., Chaudhary, V., Rani, G. M., Kumar, A., ... & Chahal, S. (2023). Magnetically separable NiZn-ferrite/CeO₂ nanorods/CNT ternary composites for photocatalytic removal of organic pollutants. *Journal of Molecular Liquids*, 390, 123064.

Sharma, M., Thakur, P., Gaur, P., Rani, G. M., Rustagi, S., Talreja, R. K., & Chaudhary, V. (2023). Cancer treatment and toxicity outlook of nanoparticles. *Environmental research*, 116870.

Taha, B. A., Al Mashhadany, Y., Al-Jubouri, Q., Haider, A. J., Chaudhary, V., Apsari, R., & Arsad, N. (2023). Uncovering the morphological differences between SARS-CoV-2 and SARS-CoV based on transmission electron microscopy images. *Microbes and infection*, 25(8), 105187.

Taha, B. A., Al Mashhadany, Y., Al-Jubouri, Q., Rashid, A. R. B. A., Luo, Y., Chen, Z., ... & Arsad, N. (2023). Next-generation nanophotonic-enabled biosensors for intelligent diagnosis of SARS-CoV-2 variants. *Science of The Total Environment*, 880, 163333.

Taha, B. A., Al-Jubouri, Q., Chahal, S., Al Mashhadany, Y., Rustagi, S., Chaudhary, V., & Arsad, N. (2024). State-of-the-art telemodule-enabled intelligent optical nano-biosensors for proficient SARS-CoV-2 monitoring. *Microchemical Journal*, 197, 109774.

UGC Care-list Indexed Journals

Mahalwala, R., & Ahuja, G. (2023). Impact of Working Capital Management on Profitability: A Study of the Select Indian Pharmaceutical Companies. *Review of Professional Management*, 21(1).

Research Projects

British Council, Design and development of bio/chemical sensors to address antibiotics abuse in India. Sanctioned amount of £39,374.16. PI: Dr. Manisha Bhutan and Dr. Vishal Chaudhary.

Punam Dagar, Associate Professor in the Department of Political Science, secured approval for a short-term Empirical Research Project titled "Socio-economic Impact of Digital India Initiatives in Himachal Pradesh: An Empirical Study" from the Indian Council of Social Science Research (ICSSR) in August 2023, with a funding allocation of 10 Lakhs INR. This project aims to investigate the tangible effects of Digital India initiatives within the state of Himachal Pradesh.

Seminars Organized

Seminar entitled, 'Jagadguru Shankaracharya : Jeevan Darshan' by Shri Somdutt Sharma and Rachna Vimal, Bhartiya Bhasha Samiti, Ministry of Education, GOI, on March 15, 2024.

Conferences Organized

Organised an international conference on, 'Addressing Antibiotics Abuse in Community using Biosensing Technologies', by British Council, UK, on August 25, 2023.

Seminar/Conference Presentations (National / International)

National

Ms. Usha Rani Matta, SPA, Library, presented a paper on Academic Libraries at ICAL-2023 International Conference organized by Delhi University Library System, University of Delhi from April 5-8, 2023.

Aloka Dutta, Associate Professor, Political Science Department, delivered a lecture as a resource person in a webinar titled, "Current Issues and Themes in Foreign Language Teaching Amidst the Changes in the Geopolitical Scenario of East Asia and South Asia" organized by Jharkhand Central University on July 16, 2023.

Ms. Ruchi Gupta, Assistant Professor, Mathematics Department

presented a research paper titled, "Study New Estimators Using Ranked Set Sample (RSS) Population Parameter as Compared to SRS" at the International (Multidisciplinary) Seminar on Indian Knowledge System: Various Dimensions on September 13, 2023.

presented a research paper titled, "Statistics, Data Science and Reliability: Exploring Trends, Methods & Applications (IC-SDRETMA-2023)" at the International Conference organized by the Department of Statistics, M.D. University, Rohtak, from December 24-26, 2023.

presented a research paper titled, "Mathematical Sciences and its Applications to Artificial Intelligence (ICMSAAI-24)" at the International Conference organized by the Department of Mathematics, SRM University, Sonapat, Haryana, from January 17-19, 2024.

Vandana Gupta, Associate Professor, English Department, presented a research paper titled "The Praxis of Resistance to the Politics of Exclusion" at the three-day national conference on "Re-imagining Northeast Writing and Narratives: Literature, Border, Ethnicity, and Cultural Imagination" organized by the Department of English, Jamia Millia Islamia, New Delhi, from November 9-11, 2023.

Shubhra Parmar, Assistant Professor, Political Science Department

presented a paper titled, "Dhamma: Epitomizing Spiritual & Cultural Diversity and Identity of Bharat" at the three-day International Conference of Indian Knowledge System for Sustainable Development in the Contemporary World organized by Sharda School of Social Sciences from January 3-5, 2024.

presented a paper titled, "Ensuring Equity & Inclusivity: G20 and Women-Led Development" at the two-day National Seminar on India's G20 Presidency: Accelerating the Achievement of the Sustainable Development Goals (SDGs) organized by Laxmibai College in collaboration with Social Science Research from January 30-31, 2024.

presented a paper titled, "Political Economy of Climate Change: Contextualizing India's Navigation Between Global North and Global South" at the one-day international conference on "India and Europe in a Changing World: Understanding Global Dynamics and Navigating New Realities" organized by Mata Sundari College, University of Delhi, and the Department of Political Science in collaboration with IQAC

and Jean Monnet Module (Democracy, Multiculturalism, and Challenges in the European Union), Jawaharlal Nehru University, on February 16, 2024.

presented a paper titled, "Women's Leadership in India & Africa: Prospects and Perspectives in Politics" at the International Conference on "India-Africa Relations: Exploring New Pathways and Building a Future Together" organized by the Department of African Studies, Faculty of Social Sciences, University of Delhi, Delhi, India, from March 6-7, 2024.

Placement Details

Total 5 students were placed during the year 2022-23.

Library Development

During the academic year 2023-24, the college library saw significant enhancements to its resources and services. Approximately 1,000 new books were added to the collection, enriching the academic and research materials available to students and faculty. The library renewed subscriptions to 44 journals and magazines, and 14 popular newspapers in both Hindi and English languages, ensuring a broad spectrum of current information is accessible. Additionally, the N-List Program was renewed from April 1, 2023, to March 31, 2024, providing continued access to a wide range of electronic resources. A notable development was the introduction of the Drillbit software for plagiarism checks in October 2023, underscoring the library's commitment to maintaining academic integrity.

Faculty Strength

Permanent: 11; Temporary: 52; Ad Hoc: 30; Guest: 12

Financial Allocation and Utilization

Grants allocated: Rs 27,36,09,522.09/-

Grants utilized: Rs.27, 04, 47,271.00/-

BHARATI COLLEGE

Major Activities and Achievements

Bharati College, a premier and prestigious college for women, was established as a constituent college with permanent affiliation to the University of Delhi by Delhi Administration on 20 September 1971 as Bharati Mahila College. The College started functioning from the premises of a Government Senior Secondary School for Boys located on the Link Road in Karol Bagh. A modest number of two hundred and forty-one students and a team of thirteen teaching staff spread over six disciplines formed the building bloc. In 1998, the college started operating from its new location. Situated in an eco-friendly environment, it possesses 23 classrooms, 46 tutorial rooms, a seminar and conference room, a studio theatre and 3 Computer Labs with over 120 computers, and now a state-of-the-art Auditorium.

The new building in the campus with 26 rooms, 2 labs and a staff room has been a welcome addition to the College. The College boasts of a successful alumni profile with its students making a mark in diverse fields, as Professors, in Corporates and even a Miss Earth.

Honours/Distinctions

Faculty

Prof Saloni Gupta, Department of Commerce, has been awarded the Visionary Educationist Award by the Commission for Other Backward Classes (Govt. of NCT Delhi).

Dr Priyambada Patri, Department of Environment Studies, has been awarded Certificate of Appreciation as 'Faculty Coordinator for BLUE NUDGE DRIIV -DEEP C Fellowship.

Dr. Rekha Sharma, Department of Hindi, has been awarded Hindi Shikshak Samman by Shri Mahesh Chandra Sharma Smriti nyas.

Prof. Saloni Gupta, Department of Commerce, Dr. Shailendra Vikram, Department of Sanskrit, Dr. Khushhee Chaudhary, Department of English and Dr. Swati Khanna, Department of Commerce have been awarded Academic Ascendancy Prize for Exemplary College Excellence at the 20th Foundation day of the Confederation of Indian Universities (CIU).

Prof. Saloni Gupta, Department of Commerce, Dr. Asha Tiwari, Department of Sanskrit and Dr. Prem Deoli, Department of Sanskrit received the Value Based Academic Achievement Award at the SAVE Summit, organized by the K.B Hedgewar Vishwa Hindu Vidypeeth, the Educational Standards and Testing Council of India, the Indian Institute of Ecology and the CII.

Publications

Scopus indexed journals

D. Bharathi, Poonam, K. K. Bajaj, A. Satheesh Babu, Gurvinder Singh. (2023). AIS Effect on Human Behavior and Well-Being: An Empirical Analysis. *Journal of Propulsion Technology*, 44(3), 2033-2042.

Bothra, N., & Gupta, S. Legacy and Luxury of Indian Cotton Textile Industry: From the lens of Indian Knowledge System. *TEXTILE Association*, 84(5), 311-319.

Gupta, S., & Bothra, N. (2023). Is CSR still optional for Luxury Brands, or can they afford to ignore it? *Int. J. Exp. Res. Rev*, 35, 169-176.

Shivan, B. (2023). Art Of Teaching: An Anthology of Innovation And Hope. *Journal of Survey in Fisheries Sciences*, 1382-1385.

Nain, H. (2023). Examining the Pandemic Induced Adoption of E-Learning Through a UTAUT Model Approach. *International Journal of Experimental Research and Review*, 35, 16–24.

Gupta, M., & Srivastava, M. (2024). Hadamard well-posedness and stability in set optimization. *Positivity*, 28(1), 7.

Tiwari, C., & Rani, M. (2024). Trouble in Paradise: Evaluating the Effects of Unorganized Tourism on the Himalayan Ecology. *The Himalayas in the Anthropocene: Environment and Development*, 165-183.

Anand, K., & Singh, D. V. (2023). Decoding Mass Media Bias: An In-depth Examination of Content Actor Representation and Partisanship in Indian Newspapers. *Journal for ReAttach Therapy and Developmental Diversities*, 6(3s), 824-835.

Singh, R. K., Pushpam, A., & Kiran. (2023). What Ails Dalit Movement: Lessons Learnt from Farmer Movement. *Contemporary Voice of Dalit*, 2455328X231157589.

UGC Care-list indexed journals

Anjum, N. (2023). A Generation Adrift: Qurratulain Hyder's Fireflies in the Mist. *Journal of Literature and Aesthetics*, 23(1), 81-91.

Bansal, V., & Sharma, D. (2023). Crypto Conundrum: Ban or Limited Nod. *The Management Accountant Journal*, 58(4), 53-56.

Srivastava, D., Singh, A. (2024). India's G-20 and SCO Presidency: Resurgent India-Central Asia Relations. *Third Concept*, 38(45), 14-17.

Gadgil A. A., Poonam, Bajaj K. K., Kumar S., Selvi K. M. (2023). The Influence of Workplace Ethics on Employee Behavior in the Banking Sector. *Samdarshi*, 16(4), 332-339.

Web of Science indexed journals

Kumar, S., & Gupta, A. (2024). Well-posedness of generalized vector variational inequality problem via topological approach. *Rendiconti del Circolo Matematico di Palermo Series 2*, 73(1), 161-169.

Gera, J., Marwaha, E. B., Thareja, R., & Jain, A. (2023). Predicting and Improving Behavioural Factors that Boosts Learning Abilities in Post-Pandemic Times using AI Techniques. *International Journal of Advanced Computer Science & Applications*, 14(11).

Gera, J., Marwaha, E. B., Thareja, R., Thareja, R., Gupta, S., & Jain, A. (2024). Analysing Student's Academic Performance in Relation to Psychosocial Aspects Using AI. *International Journal of Engineering Trends and Technology*, 72(1), 243-251.

Singh, Y. P., & Lobiyal, D. (2023). A comparative analysis and classification of cancerous brain tumors detection based on classical machine learning and deep transfer learning models. *Multimedia Tools and Applications*, 83(13), 39537-39562.

Journals published by the College

College published the volume 6(1) of ARTHAVAAN, a Department of Commerce journal which is peer-reviewed.

College published the volume 6(2) of The Research Post: International Journal of Social Sciences and Humanities jointly with Jan Kalyan Samiti, Jaipur.

Research Projects

Dr. Sonia Kaushik, ICSSR: Lack of Awareness and Other Dissonance Behind the Low Uptake of The New Income Tax Regime in India, ₹ 12.00 lakh.

Dr. Sonia Kaushik (Co-PI), Institute of Eminence, University of Delhi: Kautilya Arthashastra me varnit Prabandhan ke siddhanto ki Vartaman me Prasangikta, ₹ 2.00 lakh.

Dr. Bhawna Shivan, World Bank Adhyayan Quality Education Services Private Limited: Nagaland Education Project: The Lighthouse ‘Nagaland Enhancing Classroom Teaching and Resources: NECTAR, ₹ 0.8 lakh.

Seminars Organized

Seminar titled, “Swadeshi and Self-Reliance in India” by Prof. Sushma Yadav, Pro Vice Chancellor, Central University of Haryana, sponsored by ICSSR, on August 11, 2023.

Seminar titled, “Future Challenges and Threats in Cyber Security with AI and Legal Perspectives” by Dr. Anup Girdhar, CEO, Founder Sedulity Solutions and Technologies, on March 12, 2024.

Seminar titled, “Vedic Mathematics” by Dr. Gunjan Khurana, Associate Professor, Dept. of Mathematics, Indraprastha College for Women, University of Delhi, on October 25, 2023.

Seminar titled, “Women in Mathematics and Cryptography” by Prof. Geetha Venkataraman, Professor, School of Liberal Studies, Dr. B.R. Ambedkar University, Delhi, on February 19, 2024.

Seminar titled, “Should News Entertain or Simply Inform? The Art of Storytelling in Journalism” by Jamshed Q. Siddiqui, Storyteller and Assistant Editor at Aaj Tak Podcasts, The Education Tree, Kwikpic, on February 9, 2024.

Conferences Organized

Organized “8th International Conference on Marketing, Strategy, and Policy Research 2024: Connecting the Dots” on March 26, 2024 in collaboration with ONGC and Asha Enterprises.

Organized “International Conference on Strengthening Partnership through Trade and Career Opportunities (as part of G20 Summit India and Russia)” on March 27, 2024, in collaboration with Culture Council, University of Delhi.

Organized “Hindi Pakshotsav 2023” on September 18, 2023.

Organized “The Increasing Role of Russian Language in the Countries of BRICS & SCO: Education, Language, Culture” on March 12, 2024, by Department of Slavonic & Finno-Ugrian Studies, University of Delhi in collaboration with Embassy of the Russian Federation.

Organized “Media Mosaic - Convergence in the Digital Era” on February 8, 2024, by Bharati College in collaboration with Kwikpic, The Education Tree.

Organized One-day National dissemination workshop on ‘Lack of Awareness and Other Dissonance Behind the Low Uptake of The New Income Tax Regime in India’ on March 6, 2024, in collaboration with ICSSR, Delhi.

Seminar/Conference Presentations (National / International)

International

Ms. Aakanksha Barwal presented a paper titled “Questions of Travel and Home: (Dis)locating the Poetic Subject in Elizabeth Bishop’s Poetry” at the International Conference RHOME 2023: “(Dis)locations: The Shifting Thematics of Home organised by University of Lisbon, Portugal. Conference, on June 22-23, 2023.

Dr. Shailza Singh presented a paper titled “Everyday (in) Securities of Urban Dwellers in India during COVID-19 Pandemic: Coping with Threats and Mitigation Strategies” at the 64th ISA Annual Convention: Real Struggles, High Stakes: Cooperation, Contention, and Creativity organized by International Studies Association held at the Queen Elizabeth Fairmont, Le Centre Sheraton Montréal, during March 15-18, 2023.

Prof. Mala Rani presented a paper titled “Connecting the Dots, Beyond Algorithms: Forging Deep Connections in an AI- Driven Branding Era”, at the 8th International Conference of Marketing, Strategy & Policy Research organised by MSP Research, University of Arts, London& GIM and Bharati College, during March 27-29, 2024.

Mr. Akshat Pushpam presented a paper titled “Dalit Atrocities and Human Rights concern in India” at ICSSR and NHRC sponsored International Seminar organized at Centre of Human Studies Programme at Jawaharlal Nehru University, during March 27-28, 2024.

Dr Kalpana Kataria presented a paper titled " Mindful Decluttering: Navigating A Marie Kondo-Inspired Sustainable Living for Greener and Cleaner World" at NRC-ICSSR sponsored International Seminar on Sustainable Development Goals held at Dyal Singh College, University of Delhi, during February 26-27, 2024.

Ms. Mahima presented a paper titled “India-UK Trade Creation Analysis” at International Conference organised by Marketing, Strategy and Policy Research, on March 28, 2024

National

Dr. Deepti Srivastava presented a paper titled “Empowering Women for Viksit Bharat: A Paradigm Shift in Gender Justice” at National Seminar organised by University School of Law and Legal Studies, IP University, on March 8, 2024.

Dr Bindu Kohli presented a paper titled “Economic Transformation in the context of the Women” at National Seminar organised by Dr. Ambedkar International, during November 2-3, 2023.

Dr. Bindia Trivedi presented a paper titled “Dharm Shastra main Bhasha aur Sanskriti” at International Conference organized by GSF & Deccan College, Pune, during October 27-28, 2023.

Ms. Swati Bawa Sawhney presented a paper titled “Artificial Intelligence for children with dyslexia” at 26th Annual Conference of the Society of Statistics, Computer Applications, Banasthali Vidyapith, Rajasthan, during February 26-28, 2024.

National/International MoUs Signed

MoU between Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi and Bharati College, University of Delhi for conduct of a Faculty Development Programme on "Interdisciplinary Horizons: Advancing Research Methodology in Social Sciences".

MoU with Spoken Tutorial Program, IIT Bombay and Bharati College.

Various MoU have been signed with different societies, foundations and institutions for organising SMILE program, Changemaker lab Program, workshops and collaborative research.

Other Inter-Institutional Collaboration

Bharati College has an ongoing collaboration with Samarth Bharat for Career Counselling, Skill Development, Employment, Entrepreneurship Development, Start-up support and Mentorship.

Placement Details

Number of students placed: 34

Number of Companies visited for campus recruitment: 15

Extension and Outreach Activities

In the previous year, the College has made several impactful community interventions through its outreach initiatives:

As part of the Unnat Bharat Abhiyan, NSS students had meaningful interactions with residents of the Tihar Village, Possangipur village TitarPur village and Hastal village. These efforts culminated in a much-appreciated medical camp for village members organised by the College (in the first week of April).

The College also organised multiple blood donation drives under the direction of the NSS and NCC, including in collaboration with the National Thalassemia Welfare Society.

Another significant initiative was organised on October 1, 2023 to commemorate Gandhi Jayanti. The NSS, Palaash- the Eco Club and CDF, Bharati joined hands, for the Swachhata hi Sewa Campaign. This cleanliness drive was conducted in DDA Community Park, Adjacent to C4E Market, Janakpuri.

As a part of IAPC (internship and outreach), students got the opportunity to work with various NGOs dedicated to the cause of education, health and children with disability.

The College now serves as a collection center for household utility material for GOONJ-NGO.

NSS Unit under Project Akshar organised Visit to JNU campus providing students with campus exposure and future counselling session. Under Project Akshar - they organised doubt sessions and mock test papers of CUET PG exam for Students. NSS Unit also organised activities like Debate, Poster Making, Slogan Writing, Pledge Taking Ceremony, Online Visual Screening and making of Selfie Point and numerous voted Id workshop to highlight the importance of Voting and to promote the participation in Election among youth students. 10 Days Self Defense Training Program in collaboration with Delhi Police to promote confidence and self-power among volunteers was organised by the NSS in February 2024.

As part of Project Sambhav, CDF Bharati (in association with Paathshala and Divine Basic Needs NGO) arranged offline classes for underprivileged children last year. The team of CDF Bharati have been dispensing education and development skills to the enthusiastic young minds from areas of West and South-west Delhi.

Library Development

In the current academic Session (2023-24) Bharati College Library has started Circulation (Issuing and returning of books) through an open-source integrated library system named KOHA, which is used worldwide by public, school and special libraries. Notably the College has ensured customized specifications to the KOHA software which has resulted in value addition and enhanced experience for the users. The complete catalogue of all books stocked in the College library, as well as faculty and student data is now available, for easy checking. Log in facility to place orders is also in place. The Online Public Access

Catalogue (OPAC) facility for searching the desired books is available on Cloud based server. Users can now check the status/availability and other relevant information of any book immediately through OPAC system on internet from anywhere. Sage Publications, NLIST, DELNET and DULS databases have also been made available.

In the reporting year, the library subscribed to 16 Newspapers in English and Hindi, 15 National and International journals and 12 magazines.

During this year approx. 572 new books were added in the stock of Library making a total of 54813 books in the collection of Library.

The institutional membership of N-list was renewed for this year. The institutional membership of DELNET was also renewed.

Faculty Strength

Senior Professor/Professor/Director: 9

Associate Professor: 23

Assistant Professor: 90

Ad-hoc.: 6

Guest: 10

Financial Allocation and Utilization

Grants allocated: ₹ 38.87 crore

Grants utilized: ₹ 42.43 crore

BHASKARACHARYA COLLEGE OF APPLIED SCIENCES

Major Activities and Achievements

College soared in its second NAAC Cycle with “A++” grade (score 3.60) and 2023 NIRF Rank 22 (under college category). Committed to sustainability, the college installed solar panels, 63 solar lights, decomposer unit, and Bio-toilets. Collaboration thrived with eight MoUs, three short-term and one refresher course. Vice-Chancellor Prof. Yogesh Singh graced the MoU signing ceremony for technologically advanced pedagogy involving e-content development.

NCC welcomed its first batch of cadets. MSME approved the college as its incubation center and a faculty member and student secured funding in Idea Hackathon 3.0. College was approved as a Nodal Centre by ISRO for training programs and G20 initiative by the Culture Council. Collaborating with ISRO and Rajdhani College, a project ‘UV-radiation Monitoring Program for Climate and Health Studies’ was initiated. Adding to the college’s pride our alumnus Major Sachin Negi (Physics 2012 batch) received the prestigious "SHAURYA CHAKRA" from Hon’ble President.

Honours/Distinctions

Faculty

Prof. Avneesh Mittal has been appointed as the nominee of the UGC Chairman in the Executive Council of Arunachal Pradesh University.

Ms. Manu Kataria is appointed as visitor's nominee to the Executive Council of Hemwati Nandan Bahuguna Garhwal University Srinagar Uttarakhand from January 2024 for three years.

Dr. Uma Dhawan was awarded with 'Albert Einstein Excellence Award' to recognize and reward outstanding researchers and innovators by the Bio Footprints Society on February 28, 2024.

Students

Bhavya, student of B. Sc. (Hons) Biomedical Science; Lavika Piplani, student of B. Sc. (Hons) Food Technology; Jyotsana Bidaliya, student of B. Sc. (Hons) Microbiology; Kajal student of B. Sc. (Hons) Polymer Science are the University toppers and recipient of University Medals.

Publications

Scopus Indexed Journals

Agarwal, A., Rizwana, Tripathi, A. D., Kumar, T., Sharma, K. P., & Patel, S. K. S. (2023). Nutritional and functional new perspectives and potential health benefits of quinoa and chia seeds. *Antioxidants*, 12(7), 1413.

Agasti, N., & Pani, B. (2023). Chemistry of ancient materials of iron in India. *Applied Surface Science Advances*, 18, 100456.

Bedi, P., Dua, A., & Jindal, V. (2023). FIHIM: a framework for information hiding in IPv6 using micro-protocols. *International Journal of Information Technology*, 1-20.

Chawla, H., Anand, P., Garg, K., Bhagat, N., Varmani, S. G., Bansal, T., ... & Marwah, R. G. (2023). A comprehensive review of microbial contamination in the indoor environment: sources, sampling, health risks, and mitigation strategies. *Frontiers in Public Health*, 11, 1285393.

Deepika, Kumari, A., Prajapati, P., Sarita, Kumar, S., Aluko, R. E., ... & Garg, M. (2023). Pharmacological and therapeutic potential of *Cucumis callosus*: a novel nutritional powerhouse for the management of non-communicable diseases. *Plant Foods for Human Nutrition*, 78(4), 630-642.

Dhyani, A., Chopra, R., Singh, P. K., & Garg, M. (2023). Palm olein and perilla seed oil blends for the improvement of nutritional and thermal stability. *Grasas y Aceites*, 74(3), e511-e511.

Dimngaihvingi, E., Singh, M., Pani, B., & Singh, A. K. (2023). Silver and copper nanowire-based nanocomposite for transparent electrodes: deposition methods and applications in solar cells. *Composite Interfaces*, 30(12), 1449-1481.

Dua, S., Kumar, P., Pani, B., Kaur, A., Khanna, M., & Bhatt, G. (2023). Stability of carbon quantum dots: a critical review. *RSC advances*, 13(20), 13845-13861

Gangwal, A., Kumar, N., Sangwan, N., Dhasmana, N., Dhawan, U., Sajid, A., ... & Singh, Y. (2023). Giving a signal: how protein phosphorylation helps *Bacillus* navigate through different life stages. *FEMS Microbiology Reviews*, 47(4), 044.

- Garg, M., Ali, M., Batra, V., Sadhu, S. D., Sharma, S., Basak, S., & Sablania, V. (2023). Quality evaluation of nutri-premix prepared by using millets and seeds of fruits and vegetables. *Journal of Food Science and Technology*, 60(11), 2782-2791.
- Garg, M., Ali, M., Batra, V., Sadhu, S. D., Sharma, S., Basak, S., & Sablania, V. (2023). Quality evaluation of nutri-premix prepared by using millets and seeds of fruits and vegetables. *Journal of Food Science and Technology*, 60(11), 2782-2791.
- Garg, M., Suraj, R. K., Sachdeva, S., Mathew, S. R., & Agarwal, A. (2023). Quality assessment of value-added Indian recipe pedakiya prepared from composite flour and sesame seeds. *Journal of Applied and Natural Science*, 15(2), 767-776.
- Garg, M., Tyagi, P., Sachdeva, S., Mathew, S. R., & Agarwal, A. (2024). Quality assessment of value-added Indian recipe papad prepared from dehydrated carrot pomace powder. *Journal of Applied and Natural Science*, 16(1), 445-456.
- Garg, M., Yadav, R. L., Chopra, R., Pani, B., & Sablania, V. (2023). Optimization and evaluation of quality characteristics of traditional Indian snack (baked balls) made by using pumpkin peel powder. *Journal of Food Science and Technology*, 60(8), 2223-2233.
- Garg, M., Yadav, R. L., Chopra, R., Pani, B., & Sablania, V. (2023). Optimization and evaluation of quality characteristics of traditional Indian snack (baked balls) made by using pumpkin peel powder. *Journal of Food Science and Technology*, 60(8), 2223-2233.
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Web of Science Indexed Journals

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Research Projects

Prof. Eram S. Rao and Dr. Meenakshi Garg project entitled, 'Developing Plant-based food products' sanctioned by Natturz Bio Kontrol Pvt. Ltd. for ₹ 50,000/-.

Prof. Siddharth Sirohi project entitled, 'Development of eco-friendly and sustainable natural dyes' sanctioned by Indian Knowledge Systems Division of MOE @ AICTE for ₹ 8,26,900/-.

Prof. Uma Chaudhary, Prof. Balaram Pani, Prof. Avneesh Mittal project entitled, 'Metagenomic analysis of pulmonary microbiome to understand susceptibility to SARs-CoV and associated mucormycosis' in collaboration with Indian Institute of Science (PI: Prof. Deepak K. Saini) sanctioned by Indian Council of Medical Research (ICMR) for ₹ 18,26,804/- for two years.

Dr. Uma Dhawan project entitled, 'Role of RNA-binding proteins in rapid eye movement sleep loss associated neurodegeneration' sanctioned by SERB-DST for ₹ 28,54,500/-.

Patents Filed/Granted

Indian Patent entitled "Overhead Mobile Charging System for Electric Vehicles".

US patent entitled "Method Using Weighted Aggregated Ensemble Model for Energy Demand Management of Buildings".

UK design patent in respect of the application of such design to "Portable Cryo-Electron Microscopy".

UK design patent in respect of the application of such design to "Double Distillation Apparatus for separation of Organic Compounds".

Seminars Organized

Prof. Prerna Diwan, Professor, Department of Microbiology, Ram Lal Anand College, Comparative analysis of oral microbiota in betel quid chewers and non-chewers and its link to oral cancers: prospecting microbial consortium for therapeutic effect, February 26, 2024.

Dr. C.L. Meena, Staff Scientist, National Institute of Immunology, New Delhi, Blocking cell signaling in Cancer cells through Serine Proteases or Non-kinase strategies, November 21, 2023.

Conferences Organized

Conference entitled, 'Food Systems: A Sustainable Approach to Health, Nutrition and Environment' was organized on March 7, 2024.

Seminar/Conference Presentations (National / International)

International

Manisha Thakur presented a paper entitled, 'International conference on "HUNGER to hope: Building a sustainable Future through nutrition and Food Security "organized by Centre for Environment and Sustainable Development, Jamia Hamdard on October 16, 2023.

Susmita S. Dey presented a paper entitled, 'Preparation and characterization of NBR based composite of Polythiophene and Modified Carbon Black", at Asia Australasia regional conference organized by Polymer Processing Academy Kovalam, Kerala, between November 29, 2023 to December 02, 2023.

Uma Chaudhry presented a paper entitled, 'In silico screening and identification of natural compounds as potential inhibitors of glutamate racemase, an emerging drug target of food pathogen E. coli O157:H7' in an International Conference on Recent Advances on Green and Sustainable Developments (ICRAGSD-2023) organised by Green Chemistry Network Chapter, Akal University, Talwandi Sabo, Bathinda, Punjab, India on September 6-8, 2023.

National

Amit Kumar presented a paper entitled, 'Material characterization using Python-based toolkit'- in the National E-conference on Recent Advances in Engineering, Technology and Applied Sciences (2023) (RAETAS-2023), organized by Society Towards Advancement of Rural Education in association with Maharana Pratap School of Pharmacy, Lucknow on September 5, 2023.

Meetu Luthra presented a paper entitled, 'Semiconductors in everyday life' in an event organized by Science Society and Department of Education, Aditi Mahavidyalya, University of Delhi, on the occasion of live streaming of the inauguration of semiconductors projects by the Honourable Prime Minister on March 13, 2024.

Shalini Sehgal delivered a technical talk on 'Regulations of Food Packaging Materials in the Second Brainstorming Session for Safe, Secure and Sustainable Food Packaging Material on October 19, 2023 at IIP, Delhi organized by NETSCoFAN, FSSAI, Department of Commerce, Government of India.

National/International MoUs Signed

MoU signed with M/s SMS Water Grace BMW Pvt. Ltd. to collect the properly segregated, packed and labeled biomedical waste from the college on January 29, 2024 (valid till December 31, 2025).

MoU signed with JAAGRUTI Waste Paper Recycling Services (under Bhaanti Consultancies Pvt. Ltd.) to collect the waste paper from the college for recycling on February 1, 2024 (valid for a period of two years).

MoU signed with Department of Microbiology, Maharishi Dayanand Saraswati University, Ajmer to encourage joint academic activities and research projects by the faculty members/scientific personnel of the college and Department of Microbiology, Maharishi Dayanand Saraswati University in the field of life sciences on September 18, 2023 (valid for a period of three years).

MoU signed with Delhi State AIDS Control Society on August 14, 2023 (valid for a period of two years) to promote Red Ribbon Club which will educate youth with correct and adequate information and heighten their level of awareness about HIV/AIDS/STI/ sexuality and other related issues. The Red Ribbon Club will also organize and facilitate voluntary blood donation camps and mobilize the youth for voluntary blood donation.

MoU signed with NavTATVA Educare Pvt. Ltd. on August 8, 2023 (valid for a period of six years) for digitization of curriculum and impart technologically enhanced pedagogy to students.

MoU signed with Natturz Bio Kontrol Pvt. Ltd. on July 27, 2023 (valid for a period of one year) to develop recipes and formulations from plant-based products.

MoU signed with Innovative Power Solutions on June 3, 2023 (valid for a period of five years) to install and maintain LCD/ LED Screens in order to telecast College notices and messages.

MoU signed with Leibniz Institute for Astrophysics Potsdam (AIP), Potsdam, Germany on May 1, 2023 (valid for a period of five years) to stimulate and support educational, research, and associated activities like joint research projects, faculty and staff exchange, student exchange, educational summer schools and academic webinars, workshops etc.

Other Inter-Institutional Collaboration

Faculty members of our college collaborated with various institutes for their research and other academic work such as:

School of Medicine, New York University, New York, United States

Cedar St, Yale School of Medicine, Yale University, United States

Asian Medical Institute, Kant, Kyrgyzstan

Physics Institute, National Autonomous University of Mexico (IF-UNAM), DF, C.P. 04510, México

Center for Research in Engineering and Applied Sciences (CIICAp-IICBA), Autonomous State University of Morelos (UAEM), Av. Univ. 1001, Col. Chamilpa, Cuernavaca, Morelos 62209, México

Department of Chemical Engineering, Konkuk University, Seoul, 05029, Republic of Korea

Interdisciplinary Research Center for Advanced Materials, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia

Indian Institute of Technology, Delhi

Indian Institute of Science, Bangalore

Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh

Department of Physics and Materials Science, Madan Mohan Malviya University of Technology, Gorakhpur, India

School of Physical Sciences, Mizoram University, Aizawl

Mewar University, Rajasthan

Netaji Subhas University of Technology, Dwarka, India

University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University

Centre for Interdisciplinary Studies of Mountain & Hill Environment (CISMHE), University of Delhi

Deen Dayal Upadhyaya College, University of Delhi

Delhi School of Public Health, Institution of Eminence, University of Delhi

Delhi School of Climate Change & Sustainability, Institute of Eminence, University of Delhi

Delhi School of Economics, University of Delhi

Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi

Dyal Singh College, University of Delhi

Department of Zoology, University of Delhi

Department of Chemistry, University of Delhi,

Department of Environmental Studies, University of Delhi

Hansraj College, University of Delhi

Indraprastha College for Women, University of Delhi

Janki Devi Memorial College, University of Delhi

Maitreyi College University of Delhi

Shivaji College, Department of Chemistry, University of Delhi

Swami Shraddhanand College, Alipur, University of Delhi.

Student under Exchange Program (Inbound/Outbound)

Mr. Pravage PM from Department of Botany, Catholocate College, Kerala has completed an Internship at Department of Polymer Science, Bhaskaracharya College of Applied Sciences from March 6, 2024 to March 18, 2024.

Number of students -01

Placement Details (Number and percentage of students placed)

Number of students placed: 11.

Number of Companies visited for campus recruitment: 16.

Extension and Outreach Activities

Eco Club initiatives: Swachhta drive was organized by Eco club on March 11, 2024. Water Cleaning and Conservative Initiative at Chhat Ghat, ITO Bridge, Delhi was organized by Eco club on February 25, 2024.

Two days of self-defense training was organized by the Women Development Cell for female students of college from February 8-9, 2024.

Cancer awareness program in collaboration with the DNAmics Society was organized at Manipal hospital on the occasion of World Cancer Day on February 6, 2024.

An Inter-College workshop on Panchkosha: Holistic Development of Personality was organized jointly by DNAmics, Department of Physical Education and Yoga club on November 26, 2023.

A pamphlet-making competition and awareness program on Global Handwashing Day was organized by Sukshmjeev Society of Microbiology Department on October 22, 2023.

A workshop for 'Awareness of canteen staff' was organized by the Microbiology Department on July 5, 2023.

Workshop on CPR and First Aid training was organised by the Department of Physical Education in collaboration with Ayushman Hospital and Health Sciences on May 23, 2023.

Short Term Certificate Course on Path to Achieve Sustainable Development Goals & Making Sustainable Environment was organized by the Department of Microbiology in collaboration with Lakshya; a society for social and environmental development from May 22-26, 2023.

An Inter-departmental workshop on Skill Enhancement Workshop on Mushroom Farming: A Promising Route to Empowerment was organized on May 18, 2023.

An interaction on Beat Plastic Pollution: A Sustainable Approach was organized by the NAAC committee in collaboration with Shiksha Sanskriti Utthan Nyas on May 12, 2023.

Liver health: An awareness programme was organised by Students Advisory Committee on May 10, 2023.

An awareness programme on “Know your soil” was organized by the Department of Botany To celebrate World Earth Day on April 22, 2023.

Library Development

Library has a collection of 27327 volumes of books including reference books, 336 bound volumes of Journals and many CDs/DVDs. Apart from the regular subscription to some Journals, newspapers & magazines, the library, this year, has renewed its subscription to N-LIST (National Library and Information Services Infrastructure for Scholarly Contents) programme of INFLIBNET. This has provided the facility to access a large number of E-resources to the students and staff throughout the year 24x7.

This year the AMC of RFID Systems was also awarded. A workshop on “Library Resources Awareness Program” for all the students of the first year was organised on September 15, 2023. Students learnt how to search the books in the library and how to reserve book in KOHA Software. Students were trained with N-List software and made aware about the various facilities available at the college library. A detailed Question/Answer session was also organized towards the end of each session. An orientation programme was organised for the 1st year students on August 16, 2023. to educate the 1st year students regarding working of the library and encourage them to use the library facilities. The library also maintains a blog; a total 45,317 views were recorded till February 1, 2024.

Faculty Strength

Senior Professor/Professor/Director: 8

Associate Professor: 28

Assistant Professor: 2

Ad-Hoc: 29

Guests: 30

Financial Allocation and Utilization

Grant Allocated: ₹ 33,60,46,354.63/-

Grant Utilized: ₹ 31,70,72,693.60/-.

COLLEGE OF ART

Brief History of the College

The College of Art, established in 1942, has long been a prestigious institution for advanced training in Visual Art, both Creative and Applied. It offers comprehensive education leading to the Bachelor of Fine Art degree from the University of Delhi, as well as advanced training for the Master in Fine Art course, encompassing specializations such as Applied Art, Art History, Painting, Printmaking, Sculpture, and Visual Communication. Emphasizing studio practicals, prescribed theory subjects, and research in selected fields, the College aims to cultivate both intellectual and emotional growth, fostering a level of composite creativity and thought. Under the academic purview of the Faculty of Music & Fine Art at the University of Delhi and administratively managed by the Government of the National Capital Territory of Delhi, the College has dedicated itself to refining student perception beyond mere professional skills. Its objective is to prepare students for creative and applied responsibilities in the art and design world, nurturing intellect and emotional cultivation. Over its 83-year history, the College of Art has steadily grown, attaining a distinguished position in fine art education in India, comparable to leading art institutions worldwide.

Future proposals aim to strengthen relationships with industry, commerce, professionals, and NGOs, enhancing the already rich learning experience through extensive student research development projects, guest lectures, workshops, educational study tours, and more. The faculty comprises practicing artists, including painters, sculptors, and graphic designers of national and international repute, supplemented by visiting experts who enrich the teaching programs with their expertise. This provides students with invaluable opportunities for discussion and interaction with eminent contemporary artists, designers, and entrepreneurs, thereby ensuring a richly rewarding learning experience and future success.

Major Activities and Achievements

The College of Art has demonstrated a strong commitment to national initiatives and creative collaborations, contributing significantly to various prestigious projects. The faculty, students, and staff have actively participated in activities aligned with the vision of Prime Minister Narendra Modi, including G-20, Amrit Mahotsav, and Viksit Bharat. In collaboration with NDMC, the Ministry of Culture, and Lalit Kala Akademi, the College organized an extensive art workshop for over 2000 artists, promoting the Vision of Viksit Bharat and becoming ambassadors of Nammo Bharat. Additionally, the Sculpture students engaged in a workshop to support the beautification of Varanasi, while others worked with the Ministry of Mines to restore artworks for the G-20 summit. Further exemplifying their commitment, students from the Department of Applied Art participated in a poster-making competition organized by UCO Bank to commemorate Vigilance Awareness Week. These achievements highlight the College's dedication to integrating art with national development goals and fostering a culture of creativity and civic responsibility.

Honours/Distinctions

Faculty

Dr. Kumar Jigeeshu:

He was appointed as the course writer for skill enhancement courses at the School of Performing & Visual Arts, Indira Gandhi National Open University, New Delhi, for "Indian Art-Painting: An Introduction" (Unit-1, 2, 3 & 4).

He was honored with the National Award for the 63rd National Exhibition of Art by the Lalit Kala Akademi, Ministry of Culture, Government of India, on August 28, 2023, at Kanami Auditorium, New Delhi.

His photography work "Sky Changing the Colors" was awarded a "Certificate of Merit" in the 2nd HCC National Photography Salon (Digital) 2023 by the Federation of Indian Photography. Additionally, he participated as an artist in the conversation session "Art and the Art of Storytelling: Making of Conceptual Narratives Around Art and Artists" with National Award Winning Artists on September 5, 2023, at LKA Galleries, Rabindra Bhawan, New Delhi.

Dr. Neeti Joshi exhibited her work in the "Kalavriksh" Art Exhibition organized by the College of Art faculty at LKA, New Delhi, from January 1-15, 2024, and participated in the "VAMA" exhibition showcasing women artists from Delhi, organized by Sahitya Kala Parishad, from January 27 to February 1, 2024, at AIFACS Gallery, New Delhi.

Dr. Chirravuri Omkarachari:

He participated and exhibited in the Akshar Mahotsav conducted by the Calligraphy Foundation in association with IGIIEA, Ministry of Culture, Government of India, on August 16-17, 2023.

He also exhibited artwork at the Faculty of Visual Arts, Soban Singh Jeena University, Almora, Uttarakhand, in August 2023, and participated in the International Calligraphy Festival of Kerala 2023, conducted by Kerala Lalit Kala Academy and Kach Ta Thapa Foundation, Trivandrum, Kerala, on October 2-5, 2023.

He also participated as a Viksit Bharat art ambassador in India's biggest artist workshop organized by the National Gallery of Modern Art in collaboration with Lalit Kala Academy, Ministry of Culture, Government of India, on March 10, 2023. He exhibited in "Kalavriksh 2023" at the College of Art Faculty Exhibition from January 1-15, 2024, and the 68th Annual Art Exhibition at the Faculty Gallery, College of Art, New Delhi, on February 17-25, 2024.

Dr. Ramesh Kandagiri participated in the "Samagam Art Fest-2024," a group exhibition of paintings and sculptures at Visual Art Gallery, India Habitat Centre, New Delhi and in the 02-day International Art Camp, "The Second Leg of the Cultural & Art Exchange Programme Between India & Philippines," on April 21-22, 2024, organized by Art International at The Stainless Gallery, New Friends Colony, New Delhi. He also participated in the "63rd National Exhibition 2022-2023" at Lalit Kala Gallery, organized by Lalit Kala Akademi, New Delhi, India. Additionally, he took part in the nationwide Art Camp programme Viksit Bharat-2024 and the "Contemporary Art Workshop-2023" from November 28-30, 2023.

Seminars Organized

Seminar entitled "Three Day Seminar for Ph.D. Scholars" by Prof. (Dr.) Sanjeev Kumar, Principal, College of Art, on March 19, 2024.

Seminar entitled "MFA Dissertation Presentation" by Prof. (Dr.) Sanjeev Kumar, Principal, College of Art, on March 26, 2024.

National/International MoUs Signed

MoU with Indira Gandhi National Centre for the Arts.

MoU with Stone Artisan Park Training Institute - Ambaji, Gujarat.

MoU with Tbilisi State Academy of Art.

MoU with Ansyst Consulting, India.

MoU with TCS.

Other Inter-Institutional Collaboration

Camel Color Foundation hosted a national portrait demonstration workshop at LKA on May 13-14, 2023.

Both students and faculty participated in a yoga workshop held at IGNCA.

Students attended a national workshop organized by the Cultural Council office in March 2024.

Placement Details

About 40-43 students placed.

Number of Companies visited for campus recruitment

2

Library Development

In the 2023-24 academic year, the library saw significant development and modernization. A total of 170 new books were added to its collection, enhancing the resources available to students and faculty. The library is currently undergoing automation with the implementation of E-g4 (e-Granthalaya 4.0), streamlining library management and accessibility. Bar-coding of the library's collection is also in progress, further facilitating efficient organization and tracking of materials. Ph.D. students have begun utilizing the library's extensive resources for their research needs. Additionally, students can now access books through their mobile phones, providing convenient and flexible access to the library's offerings. To ensure the integrity of academic work, Drill Bit Plagiarism detection software is being used to check students' research. These advancements collectively mark a significant step forward in the library's development.

Faculty Strength

Senior Professor/Professor/Director- 01; Associate Professor- 03; Assistant Professor- 16;

Guest - 4

Financial Allocation and Utilization

Grants allocated: 152303401

Grants utilized: 113107800

COLLEGE OF NURSING, ARMY HOSPITAL (Research & Referral)

Brief History of the college

College of Nursing, Army Hospital, is one of the well-known institutes which was established in the year 1950 and is located in Delhi. The institute offers various Degree and Diploma courses including UG and

PG programs. Programs are offered in Part-Time and Full-Time mode, and are delivered by highly experienced faculty. Students can pursue education in multiple courses like PG Diploma, B.Sc. in the stream of Nursing. It provides students with the opportunity to learn from skilled and experienced faculty members. The institute's courses are approved by the INC, etc, and are accessible to candidates seeking quality education at an affordable fee. With 65 seats, students have the opportunity to acquire knowledge and skills in their desired field. The fee for the courses offered by the institute ranges between INR 161,000. College of Nursing, Army Hospital also offers excellent infrastructure facilities, such as Auditorium, Boys Hostel, Cafeteria, Co-ed Hostel, Girls Hostel, Gym, Hospital / Medical Facilities, Hostel, Labs, Library, Sports Complex, Wi-Fi Campus, etc.

Honours/Distinctions

Faculty

Lt. Arshpreet Kaur was awarded the President silver Medal for the best Outgoing Nursing student among 06 Nursing Colleges under AFMS.

Various prizes were won in SNA Biennial competition at National Level. These includes first prize in Monoact by N/Cdt Astha; first prize in Extempore by N/Cdt Vatsala; first prize in Scientific Paper Presentation by N/Cdt Akansha, N/Cdt Muskan & N/Cdt Mercy; first prize in Essay writing by N/Cdt Vaishnavi; first prize in Poster Making by N/Cdt Mercy, N/Cdt Mini, N/Cdt Isha & N/Cdt Megha; second prize in Poster Making by N/cdt Neha; third prize in Rangoli by N/cdt Lovel; third prize in Pencil Sketching by N/Cdt Madhu & second best SNA unit & Cash prize of Rs 75000 only.

The college got the recognition of first SNA Unit in Delhi State Branch.

The college won various prizes in MTNL Perfect Health Mela, a inter college SNA Competition. These includes first prize in Folk group dance, first prize in fashion show, third prize in yoga & third prize in street play.

Research Projects

Various Research Projects undertaken by Undergraduate students under the guidance of faculty which include,

A Cross sectional study to assess the knowledge & attitude regarding preventive measures of tuberculosis among class IV workers of quaternary care hospitals.

A descriptive study to assess the knowledge & attitude regarding respectful maternity care among Nursing Officers in quaternary care hospital in Delhi.

A study to correlate emotional intelligence and self esteem of Nursing students studying in a selected College of Nursing in Delhi.

A study to assess the knowledge and self reported practice regarding care of AV fistula among patients with AV fistula in Quaternary Care hospital in New Delhi.

A descriptive study to assess the knowledge of primigravida mothers regarding the dangers signs in newborn and the associated socio demographic variables in a quaternary Care hospital in New Delhi.

Various projects were done by PB Diploma Trainees such as,

An observational study to assess incidence and factors determining delirium in post operative phase of open Cardiac Surgery patient in Quaternary Care Centre at South Delhi by Maj Sumi Chand, Capt Manisha, Capt Manisha Guddolian & Capt Varsha M Nair.

A Descriptive study to assess the prevalence of selective hospital acquired infections & associated Micro-organisms among patients admitted in Intensive Care Unit of a Quaternary Care Hospital of South Delhi by Lt Col Anita Rai, Capt Bishali, Capt Kavita Samant, Capt Neha Jha & Capt Chanpreet Kaur.

A comparative study to assess QoL among patients after Direct anterior approach THR and posterior approach THR at Joint replacement Centre of New Delhi by Lt Col Nitu Yadav, Maj Chanchal Sharma, Maj Mamta Sharma, Maj Sree Rekha R Nair, Capt Shivani Bhardwaj & Capt Jinnu Jacob.

A comparative study to assess the number of squeezes required in Neonates undergoing blood sampling procedure to various heel prick devices used in quaternary Hospital of Delhi by Capt Rashmi Sharma, Capt Shalu Sharma and Capt Priyanka.

A study to assess the knowledge regarding warning signs in pregnancy among antenatal women attending out-patient departments in selected hospitals at Delhi by Maj Jaya Sree T, Maj Madhumita Nandi and Maj Pooja Kumari.

A Retrospective study to assess the post injury quality of life of burn patients admitted at Burn centre of south Delhi by Maj Manju Lata, Maj Sanya KS, Maj Helna KV and Capt Swati Dogra.

A study to assess 30 days mortality among newly diagnosed patients of Acute Leukemia at Hematology centre of a quaternary care hospital of South Delhi by Maj Jyoti Rana, Maj Ning Lun Niang, Capt Jaigy Jose and Capt Annuncia George.

Seminars Organized

Seminars entitled “CPR”, “Newer Advancements in care of critically ill patients”, “Cardiac Surgeries & Nursing Management”, “Disaster Management” and “Management of blood spill & care bundle for IV access” were organized in February, 2024.

Seminars entitled “Healthcare Worker Safety, Needle stick injury & PEP”, “Care of refractory Hypertension in young”, “Amyotrophic lateral sclerosis”, “Adoption – A ray of hope” and “Abdominal lump & its management” were organized in March, 2024.

Nursing Symposium is conducted for all students & faculty on a weekly basis covering topics such as Shoulder Dystocia, Anasarca, Introduction to HAI etc in February, 2024.

Conferences Organized

A workshop on ‘Breastfeeding’ was celebrated in August, 2023 which was sponsored by Army Hospital(R&R). Various awareness programmes & activities were conducted including quiz competition, role play, health education to patients in Gynae ward & poster competition.

Nutrifest - “Parivartak poshan samaroh” Nutrifest was conducted by first year students in August, 2023. Students actively participated and prepared various Nutritious dishes which were appreciated by all.

World Mental Health Day celebration was organized from October 10-17, 2023. Various activities including School health survey on adolescent's mental health, poster competition & psychodrama were conducted.

Conferences spreading awareness regarding World Hearing Day, Oral Health Day & World TB Day in March, 2024.

Seminar/Conference Presentations (National / International)

National

Lt Col Yamuna C B:

Participated in 7th Annual conference of Indian Society of trauma & Acute care (ISTAC) for paper presentation during Nov 23-25, 2023.

Presented a poster in the Annual Neurotrauma Conference (ANTA-2023) at AIIMS, New Delhi during March 18-20, 2023.

Presented a scientific paper in International conference in recent advances on Neurotraumatology (ICRAN 2024) during March 1-3, 2024.

Presented a scientific poster in the CME in Paediatrics on New Era 2024 at AFMC, Pune on May 25-26, 2024.

Attended CME on Insights on Practices Changing updates at AH(R&R) Delhi on Jun 9, 2024.

Placement Details

30 students of sixth batch of B.Sc. (Hons) Nursing course commissioned as Lieutenant in Military Nursing Service on October 12, 2023.

Extension and Outreach Activities

Mass health education programme (Health exhibition and role play) for 150 families in Kabul lines was organized by IV year students spreading awareness on prevention & management of lifestyle diseases on September 8, 2023.

Mass Health Education & Health Camp was arranged at village Jaffanpur on “Prevention of Vector Borne Diseases” on September 21, 2023. Students screened approx. 200 people for lifestyle diseases.

Group project on “Prevention of Dengue fever” was conducted by III year Bsc (H) Nursing students at PHC Palam & Palam village . Nukkad Natak & Rally were organized for general public awareness.

Urban Health Nutrition Day was celebrated in Anganwadi Jaffarpur village by III year Bsc (H) Nursing students

National Newborn week was organized by NNF on November 16, 2023 in collaboration with the GoI Ministry of family & Health welfare. One day workshop with panel discussion chaired by Faculty of College of Nursing.

World Tuberculosis Day was organized by III year students at PHC Ujjwa & Jaffarpur Village students performed street play & rally for public awareness with the theme “Yes We Can End TB”

World Heart Day was celebrated on the theme “ Use Heart, Know Heart”. Poster making competition, workshop on BLS & a walkathon was conducted as part of the celebration in September, 2023.

World Cancer Day was celebrated in February, 2024. College of Nursing students actively participated in Poster making competition on the theme “Soldiering on after cancer as part of closing the care gap”. II year students performed a Nukad Natak on “Early Detection and Early Treatment of Breast Cancer, Cervical Cancer & Lung Cancer”.

Library Development

Total No of Books in College of Nursing is around 5,050 and total number of books in Army Hospital (R&R) library is around 10,100.

Faculty Strength

Total Faculty: 25, Ad-hoc Faculty: 05

Financial Allocation and Utilization

Grant sanctioned by government and 100% utilized

Other Significant Information

College of Nursing Army Hospital (R&R) also conducts eight Post Basic Diploma Specialty courses in Nursing along with B.Sc. (Hons) Nursing which are recognized by the Indian Nursing Council.

COLLEGE OF VOCATIONAL STUDIES

Brief History of the College

The College of Vocational Studies (CVS) is a constituent college of the University of Delhi. It is a co-educational college founded in 1972 with emphasis on vocational education to bridge the gap between traditional university education, through courses in French, German and Spanish languages, Post Graduate Diploma in Tourism and Post Graduate Diploma in Book Publishing. It is well versed in the traditional course as well. Courses like History Honours, English Honours, Economics Honours, Computer Science Honours, etc. are also being offered at the college.

Major Activities and Achievements

The college was awarded Grade A by NAAC.

The College was awarded with the Zero-Waste and Single Use Plastic Free Campus Award on July 13, 2023 by Dr. Angel Bhati Chauhan, IAS, Deputy commissioner, South Zone.

Ms. Kritika, Student of B.A.(Voc.) OMSP received Gold Medal in 100th Convocation of Delhi University.

Publications

Web of Science Indexed Journals

Kumar, S. (2023). Demographic Factors and their impact on Consumer Attitude towards Green Durable Products in Delhi/NCR. *World Journal of Advanced Research and Reviews*, 20(3), 1522-1534.

Tripathi, P., Ansari, M. A., Gandhi, T. K., Albalwy, F., Mehrotra, R., & Mishra, D. (2024). Computational ensemble expert system classification for the recognition of bruxism using physiological signals. *Heliyon*, 10(4).

Seminars Organized

Seminar entitled, 'National Nutrition Day' by Dr Manisha Narayan, Deputy Director, Northern Region, FSSAI, on September 1, 2023.

Seminar entitled, 'Legal Independens of Women' by Ms. Madhu Jain, LD Principal District and Session Judge (South), DLSA, on March 4, 2024..

Placement Details

165 students placed.

Number of Companies visited for campus recruitment

415

Extension and Outreach Activities

Launched Nasha Mukta Bharat campaign on February 2, 2024.

NSS, CVS organized Mega Voters' Registration Drive from December 1, 2023 to December 10, 2023 and enrolled 500+ students as first time voters.

Library Development

Library holds around 62130 books, with 1082 new books in current financial year, subscription to national & international journals and 12 newspapers (Hindi & English) for its users. The scholars from JNU and Jamia Millia Islamia University and other institutions visited the Library for literature search & data collection on Vocational Subjects/topics during the year. Equipped with modernized technology, the library uses Web OPAC for its users. Besides that, teachers and students are given the access to e-resources of UGC/INFLIBNET and various databases provided by University.

Faculty Strength

Professors: 4, Associate Professors: 21, Assistant Professors: 98, Ad-hoc: 5, Guest: 2

Financial Allocation and Utilization

Grants Allocated: Rs. 38,45,43,000/-

Grants Utilized: Rs. 38,43,28,646/-

DAULAT RAM COLLEGE

Brief History of the College

Daulat Ram College is a constituent college of the University of Delhi. Founded by educationist and philanthropist Shri Daulat Ram Gupta in 1960, it is located in the North Campus. The college provides education at Bachelor's as well as Master's levels. Daulat Ram College is an all-women's college.

Major Activities and Achievements

The college had achieved a remarkable ranking of 28 by NIRF. Furthermore, it had secured 7th position in science, 16th in Commerce, and 15th in Humanities by India Today. The Psychology department got 3rd rank, and the Sanskrit department has been ranked 9th all over India. The College has been conferred "Star College" status by DBT. Ms Nasreen Shaikh, the proud alumna was revered with Arjuna Award for her impeccable performance as a captain of Indian kho-kho team. The commitment and responsibility of college towards society was significantly witnessed as it was declared a Zero Waste Institute by MCD.

Honours/Distinctions

Faculty

Dr Divya Mathur was garnered with the Women Achiever Award on the occasion of International Women's Day on March 9, 2024 by the Environment and Social Development Association (ESDA) and Dr Swarn Chawla Memorial Foundation.

Dr. Kamna Vimal was received the Outstanding Paper Presenter award for her paper entitled "Ayurvedic Interventions to Treat Disorders of Eyes" presented at the Third International Sanskrit Conference on Relevance of "Traditional Medicines in Modern Era" held on October 2023.

Publications

Scopus Indexed Journals

Ahuja, G., & Mahiya, K. (2024). Copper (II) complex of N, N'-bis-(benzimidazol-2-yl-methyl)-hexane-1, 6-dicarboxamide ligand: synthesis, structure and catalytic oxidation of amines in ionic liquid. *Transition Metal Chemistry*, 49(2), 121-128.

Chauhan, M., Yadav, S., & Malhotra, P. (2023). In-situ biogenically synthesized Cu₂O/RGO composite using beetroot peel extract for selective and efficient reduction of cinnamaldehyde in water. *Applied Nanoscience*, 13(6), 4331-4342.

Gupta, A., Kumar, M., Sharma, R., Tripathi, R., Kumar, V., & Thakur, I. S. (2023). Screening and characterization of biofloculant isolated from thermotolerant *Bacillus* sp. ISTVK1 and its application in wastewater treatment. *Environmental Technology & Innovation*, 30, 103135.

Gupta, G., Bala, N., & Rath, S. (2023). Electrochemical performance of ZnMgO photoanodes prepared by a green synthesis route. *MRS Communications*, 13(6), 1196-1202.

Khandai, S., Mathew, J., Yadav, R., Kataria, S., & Kohli, H. (2023). Ensuring brand loyalty for firms practising sustainable marketing: a roadmap. *Society and Business Review*, 18(2), 219-243.

- Krishnan, R., Khanduri, P., & Tandon, R. (2023). Development of pollen dyads in *Polypleurum munnarens* Nagendran & Arekal (Podostemaceae): Insights into the plant's reproductive strategy. *Flora*, 305, 152331.
- Kumar, A., Saxena, N., Seema, K., Srivastava, A., Rajak, J., Singh, D., ... & Singh, L. (2023). Physico-Chemical Characterization of Green Synthesized Nanomaterials by UV-Visible Spectroscopy. *Current Nanomaterials*, 8(2), 102-109.
- Kumar, R., Maity, J., Mathur, D., Verma, A., Rana, N., Kumar, M., ... & Prasad, A. K. (2023). Green synthesis of triazolo-nucleoside conjugates via azide-alkyne C–N bond formation. *Physical Sciences Reviews*, 8(9), 2775-2818.
- Kumar, S., Dhiman, S. K., & Chauhan, A. (2023). Analysis of Lie invariance, analytical solutions, conservation laws, and a variety of wave profiles for the (2+ 1)-dimensional Riemann wave model arising from ocean tsunamis and seismic sea waves. *The European Physical Journal Plus*, 138(7), 1-22.
- Kumar, S., Ma, W. X., Dhiman, S. K., & Chauhan, A. (2023). Lie group analysis with the optimal system, generalized invariant solutions, and an enormous variety of different wave profiles for the higher-dimensional modified dispersive water wave system of equations. *The European Physical Journal Plus*, 138(5), 434.
- Kumar, S., Rai, R. N., Singh, D., Ansari, A. A., Lee, Y., & Singh, L. (2023). Future perspectives on QDs embedded nano-fibrous materials as high capacity sustainable anode for Na-ion batteries technology. *MRS Energy & Sustainability*, 10(2), 238-246.
- Kumar, V., Verma, P., Mittal, A., Tuesta Panduro, J. A., Singh, S., Paliwal, M., & Sharma, N. K. (2023). Adoption of ICTs as an emergent business strategy during and following COVID-19 crisis: evidence from Indian MSMEs. *Benchmarking: An International Journal*, 30(6), 1850-1883.
- Kumari, U., & Sharma, D. C. (2023). Transient analysis of an unreliable system with working vacation and threshold recovery. *Mathematics in Engineering, Science & Aerospace (MESA)*, 14(3).
- Kumari, U., & Sharma, D. C. (2023). Transient analysis of an unreliable system with working vacation and threshold recovery. *Mathematics in Engineering, Science & Aerospace (MESA)*, 14(3), 761-772.
- Mahongnao, S., Sharma, P., Singh, D., Ahamad, A., Kumar, P. V., Kumar, P., & Nanda, S. (2023). Formation and characterization of leaf waste into organic compost. *Environmental Science and Pollution Research*, 30(30), 75823-75837.
- Maikhuri, V. K., Verma, V., Chaudhary, A., Mathur, D., Kumar, R., & Prasad, A. K. (2023). Sugars in Multicomponent Reactions: A Toolbox for Diversity-Oriented Synthesis. *Synthesis*, 55(07), 1007-1041.
- Mantry, P., Poumai, K. T., & Kaushik, S. K. (2023). Reconstruction of multidimensional digital signals. *International Journal of Wavelets, Multiresolution and Information Processing*, 21(01), 2250038.
- Mudgal, P., Gupta, R., Joshi, A., Prakash, C., Gupta, K., Sachdeva, R., & Joshi, N. (2023). Assessment of anxiolytic activity of brahmi (*Bacopa monnieri*) in zebrafish model system.
- Pal, K., & Danda, S. (2023). Stress, anxiety triggers and mental health care needs among general public under lockdown during COVID-19 pandemic: a cross-sectional study in India. *International Journal of Mental Health and Addiction*, 21(1), 321-332.

Rana, M., Choubey, P., Nandi, G., Jain, S., Bajaj, D., Sharma, S., & Basu-Modak, S. (2023). Expression of angiogenic factors in the placenta of heme oxygenase-1 deficient mouse embryo. *Reproductive Biology*, 23(4), 100822.

Senrunga, A., Tripathi, T., Janjua, D., Yadav, S. K., Chhokar, A., Aggarwal, N., ... & Bharti, A. C. (2023). Chick chorioallantoic membrane: a valuable 3D in vivo model for screening nanoformulations for tumor antiangiogenic therapeutics. *Int. J. Dev. Biol*, 67, 115-135.

Senrunga, A., Tripathi, T., Yadav, J., Janjua, D., Chaudhary, A., Chhokar, A., ... & Bharti, A. C. (2023). In vivo antiangiogenic effect of nimbolide, trans-chalcone and piperine for use against glioblastoma. *BMC cancer*, 23(1), 1173.

Singh, D., Anuradha, A., Kumar, S., Kumar, A., Dheer, N., Singh, M. R., ... & Sahu, I. P. (2023). Photodegradation of Methylene blue and Rhodamine B using potato starch mediated zinc oxide nanoparticles and its calcium nanocomposites: Greener approach. *Applied Chemical Engineering*, 6(1), 94-103.

Singh, D., Mathur, D., Kumar, S., Pani, B., Kumar, A., Kanojia, R., ... & Singh, L. (2023). Bio-genic synthesis of calcium coated zinc oxide nanoparticles from beetroot extract and their photo-degradation study on methylene blue and rhodamine B. *Plant Nano Biology*, 4, 100031.

Singh, D., Rawat, D., Kumar, A., Rawat, P., Singhal, R., & Singh, L. (2023). Agro-waste Mediated Biosynthesis of Zinc Oxide Nanoparticles and their Antibacterial Properties: Waste to Treat. *Current Nanomaterials*, 8(3), 291-299.

Singh, S., Kumar, V., Paliwal, M., Singh, S. V. P., & Mahlawat, S. (2023). Explaining the linkage between antecedents' factors of adopting online classes and perceived learning outcome using extended UTAUT model. *Data and Information Management*, 7(4), 100052.

Singh, S., Rajak, B. K., & Paliwal, M. (2023). Impact of social media marketing on consumer consciousness and purchase of durable products. *International Journal of Business Information Systems*, 43(1), 38-52.

Singla, R., Singla, R., Kumar, S., Hackett, T. A., & Kashyap, M. K. (2023). Signature of magnetism in 2D-chromia: 2D analog of the natural α -Cr₂O₃ mineral and its heterostructure with graphene. *Materials Advances*, 4(10), 2372-2378.

Verma, P., Singh, S., Kumar, V., Paliwal, M., Sharma, P., & Hsu, S. C. (2023). Fear of COVID-19 outbreak, stress and anxiety among working employees: a multi-service sector study. *International Journal of Industrial and Systems Engineering*, 45(3), 378-397.

Yadav, S., Shah, A., & Malhotra, P. (2023). Orange Pomace Facilitated Synthesis of Cu₂O/ZnO Nanocomposites for Visual and Optical Sensing of Silver Ions in Water for Environmental Remediation. *ChemistrySelect*, 8(2), e202203775.

Yadav, S., Sharma, T., Kaushik, R., & Malhotra, P. (2023). Peroxidase mimicking activity of *Saccharum officinarum* L. capped gold nanoparticles using o-dianisidine as a substrate. *New Journal of Chemistry*, 47(5), 2372-2382.

UGC Care-list Indexed Journals

Gupta, U., Feroz, N., Devi, K. S., Dhall, M., Dhamija, N., & Mangla, A. G. (2023). Digital Screen Time as a Characteristic of Academic Performance among School-Going Children. *Journal of the Anthropological Survey of India*, 72(2), 253-266.

Koolwal, G., & Van de Walle, D. (2013). Access to water, women's work, and child outcomes. *Economic Development and Cultural Change*, 61(2), 369-405.

Journal Published by the College

Neetu Gupta, Neera Jalchhatri, Kshitija Wason, Owais Farooq (2023). Shreshtha. FA Digital Productions , 8(1), 79

Research Projects

CSIR, Government of India, Designing and synthesis of novel Coumarin pyridine/quinolone/quinazoline/indazole hybrids as angiogenesis inhibitors targeting VEGFR-2TKD against tumour microenvironment. Sanctioned amount of Rs. 29.85 lakhs. PIs: Dr Meenakshi Thakur, Dr Anna Senrunga, Dr Divya Mathur.

ICSSR, Government of India, Addressing the hindrances to promote Digital inclusion of women in Uttarakhand and Jammu and Kashmir. Sanctioned amount of Rs. 18 lakhs. PI: Dr. Meenakshi Paliwal.

Daulat Ram College, Traditional Indian Medicine in the management and treatment of hypothyroidism using zebra fish model system. Sanctioned amount of Rs. 0.45 lakhs. PIs: Prof P Mudgal, Dr Radhika Gupta.

Daulat Ram College, Photocatalytic properties of metal and metal oxides and nanoparticles and their efficacy in prevention of bacterial growth. Sanctioned amount of Rs. 7 lakhs. PIs: Dr. Darshan, Dr. Sunita Yadav, Dr Anuradha.

Daulat Ram College, Biogenic synthesis of graphene oxide based nanocomposites and their catalytic application in purification of water for environmental remediation. Sanctioned amount of Rs. 0.75 lakhs. PIs: Prof Priti Malhotra, Dr Arti Jain, Dr Rekha Kathal.

Patents Filed/Granted

Patent Holder: Arti Jain, Assistant Professor, Department of Chemistry; Patent granted on: February 27, 2023; Title: "A Process for Selective C-3 thiazolylolation of Indole", Design no.- 516103.

Patent Holder: 366345-001 and Ravindra Kumar, Assistant Professor Department of Commerce; Patent granted on: December 8, 2023; Title: "Safety Indicator", Design no.-366345-001.

UK Patent; Patent Holder: Meenakshi Paliwal, Assistant Professor, Department of Commerce; Patent granted on: October 2, 2023; Title: "Intelligent device for vehicle speed monitoring", Design No.- 6314882.

Seminars Organized

Seminar entitled, 'Microplastics and its remediation' by Dr Ludovic Dumeé, Khalifa University of Science and Technology, UAE and Prof Vandana Mishra, Director Centre of Inter-Disciplinary studies of mountain and hill environment, Dept of Environmental studies, DU June 14, 2023.

Seminar entitled, 'G20 Presidency and its Global Impact' by Prof Heeraman Tiwari, Chairperson, Centre for Historical Studies, JNU; Prof Amitabh Mattoo, Chairperson, School of International Studies, JNU and Dr Abhishek Tandon on October 11, 2023.

Seminar entitled, 'Lifestyle for Environment' by Dr C R Magesh, Senior Scientist, Govt of India on November 28, 2023.

National Youth Conclave entitled, 'Bharat's Geo-strategy for Amrit Kal' with various speakers, by Youth Affairs, Department of Youth Affairs, Government of India in collaboration with Global Counter Terrorism Council, on February 02, 2024.

Seminar entitled, 'Life skills through constructive program' by Dr Suman Khanna, Director Shanti Sahyog; Dr D C Jain, Professor, Neurology Department, Safdarjung Hospital and Shri Bibhuti Kumar Mishra, Director, Akhil Bharatiye Rachnatmak Samaj on October 20, 2023.

Conferences Organized

Organized International Conference on 'Modernism, India and the Colonial Gaze' on 1 February 2024, by the Department of English and sponsored by ICSSR.

Seminar/Conference Presentations (National / International)

National

Sarita Nanda presented a paper on "Formation and Characterisation of Leaf compost into Organic compost" at an international offline conference organized by Environment and Social Development Association on November 4-5, 2023.

Meetu Khosla of the

Delivered a lecture on "Yoga and Health in the Modern World" at an international offline conference organized by University of Saskatchewan, Canada on October 5, 2023.

Presented the paper on "Social Media : An Escape from Reality: ?Implications for self esteem and health" at an International conference on counseling, psychotherapy and wellness held at Christ University on January 3-7, 2024.

Vandana presented a paper entitled "World Literature, Translation studies and the Politics of Canon: Is there any space for the subaltern?" at International offline conference on Modernism, India and the Colonial Gaze, organised by Daulat Ram College February 1-2, 2024.

Asmita Gupta presented a paper on "Analysis of FAME and PHA production along with wastewater contaminant removal using sewage sludge bacteria" at an international offline conference organized by NISIT-CSIR and BRSI on November 26-29, 2023.

Deepak Naorem presented a paper on "Writing (global?) history of script making and script reforms in the India-Myanmar-Bangladesh borderland" at an international offline conference organized by Global History and Cultural Center, University of Warwick on April 4, 2023.

Shikha Singh presented a paper on "Welfare Analysis of Directed Lending Policy" at an international offline conference organized by Indian Institute of Technology, Delhi on January 12-14, 2024.

National/International MoUs Signed

Various MoUs signed with different institutions that entail short -term modules, workshops, collaborative research and networks.

A tripartite MoU with Rekhi foundation on starting a Rekhi Center of Excellence for science of Happiness.

A MoU with Chamber of Indian Micro Small and Medium Enterprises and College to Support Student Entrepreneurship Development on September 26, 2023.

A Tripartite MoU under the Vidya Vistar Scheme between The University of Delhi, Daulat Ram College and Government College, Chouhatan, affiliated to Jai Narayan Vyas University, Jodhpur in 2021, valid for 3 years.

A MOU with Director NIET (Pharmacy college) Noida for collaboration in Research, education and training on January 16, 2024.

Under the mentor-mentee scheme of the Ministry of Education, Institution Innovation Council (IIC), Maharaja Surajmal Institute of Technology would guide the college in carrying out the activities of IIC.

A MOU with IMS to guide students for IIMs.

A MOU with International School of Business and Media to guide the students for the interview.

A MOU with Next IAS to guide students for preparation of IAS.

Placement Details

Total 123 students placed out of 1389 in the year 2022-23 (8%)

Number of Companies visited for campus recruitment

40

Extension and Outreach Activities

NCC, Daulat Ram, completed "Swachhta Pakhwada Ek Tarikh Ek Ghanta Ek Sath" on October 1, 2023 at the areas near the Red Fort comprising of cleaning drive and Nukkad Natak. The cadets of NCC DRC attended the G20 University Connect Finale programme at Bharat Mandapam, New Delhi on September 26, 2023.

Under the guidance of 1DGBn, a street play was performed at Kashmere Gate to amplify the voice of environment conservation & convey a message regarding cleanliness on September 5, 2023.

North East Cell, DRC was actively engaged in arranging financial assistance by organizing a donation drive for the people of Manipur and Sikkim, who were inflicted by ethnic clashes and floods, respectively, leading to a grave loss of life and property on November 6-9, 2023.

NSS, Daulat Ram, actively conducted a variety of government-led community service activities and programs throughout the year, including Walkathon cum Cleanliness drive and an open plantation drive to generate awareness on environment-friendly practices (June 3, 2023), cleanliness drive – Ek Tareek Ek Ghanta (October 1, 2023), a stationary donation drive was organized under the project Paakhi, a child

welfare initiative (October 14, 2023) & an open plantation drive with Amulya Boondh Foundation (June 5, 2023).

The Economics department organized a book donation drive on October 10, 2023.

Library Development

Library holds around 1 lakhs books, subscription to 20 magazines and 11 newspapers. 811 books were purchased in 2023-2024. Journals are accessible through N-LIST, INFLIBNET, DELNET and Delhi University Library System. Equipped with computers and high speed internet facilities, the library uses the most advanced library management and automation software KOHA. Web OPAC (Online Public Service Catalogue) ensures automatic retrieval of information related to books issued to students. Highlighting the values of inclusiveness and ensuring accessibility, assistive technologies for Divyang students is used and access to Online Braille Library to its users are offered. In addition, Daisy players were provided to the Divyang students for recording purposes. Library purchases KIBO 360 that converts text to any desired language/audio format. Library registered itself at Sugymya Pustakalya (<https://library.daisyindia.org/welcomeLink.action>).

Faculty Strength

Professors: 9, Associate Professors: 33, Assistant Professors: 130, Ad-hoc: 13, Guest: 16

Financial Allocation and Utilization

Grants Allocated: Rs. 7262.52 lakhs Grants Utilized: Rs. 8576.30 lakhs

Other Significant Information

Drosophila and Zebrafish model organism Skill Development Centre received ten lakh grant from Skill Development Committee DU, showing its significant contribution to Skill enhancement and productivity.

"Legal Services clinic" was inaugurated in the college to provide free legal aid to teachers, staff and students.

DELHI COLLEGE OF ARTS AND COMMERCE

Brief History of the College

Delhi College of Arts and Commerce is a constituent college of the University of Delhi, in New Delhi, India. The college presently operates in a building owned by the Department of Higher Education, GNCTD and is situated at Netaji Nagar, New Delhi. A premier constituent under the University of Delhi, is partially financed by Govt. of NCT, Delhi.

Major Activities and Achievements

College hosted Mr. Sebastian Contin Trillo-Figueroa, a former Member of Parliament and Councilman (Spain), political strategist, EU consultant and geopolitical scholar in April 2023. Trayaksh Bharadwaj, ex-JUO DCAC NCC was recommended from 21 SSB Bhopal for CDS (IMA) entry. DCAC NCC cadets participated in celebrations at the Red Fort, headed by Capt. (Dr.) Bhupinder on the eve of Independence Day. Ex-JUO Raman was recommended for NCC Special Entry from 19 SSB Allahabad. Flying Officer Prakhar Mishra commissioned into the Indian Air Force at Air Force Academy Dundigul. F/C Akhilesh Goswami (ex JUO trg) marched in the Nishan toli in the combined graduation parade for Autumn term. K Shiva Sai, ex-CDT got recommended from 24 SSB Bangalore for CDS (OTA) entry. Ex JUO Trayaksh Bharadwaj recommended for AFCAT from 1 AFSB Dehradun. The college bagged second prize in the category of Mass Communication Institutes at the International Public Relations Festival in November, 2023.

Honours/Distinctions

Faculty

Prof. Deepti Taneja received “Mahatama Hansraj Gaurav Samman” by Hansraj College, University of Delhi on February 10, 2023

Prof. Deepti Taneja received “Economic Times (ET) Inspiring Women Leaders (North), 2022” award by the Economic Times, Timesgroup on April 2, 2022

Publications

Scopus Indexed Journals

Chaurasia, M., Patel, K., Bhadouria, R., & Rao, K. S. (2023). Spatial variability in soil physicochemical parameters across land use classes in the peri-urban landscape. *Environment, Development and Sustainability*, 1-25.

Chavriya, S., Sharma, G. D., & Mahendru, M. (2024). Financial inclusion as a tool for sustainable macroeconomic growth: An integrative analysis. *Annals of Public and Cooperative Economics*, 95(2), 527-551.

Maharana, P., Kumar, D., Das, S., Tiwari, P. R., Norgate, M., & Raman, V. A. V. (2024). Projected changes in heatwaves and its impact on human discomfort over India due to global warming under the CORDEX-CORE framework. *Theoretical and Applied Climatology*, 155(4), 2775-2786.

Singh, A. K., & Meena, M. K. (2024). Online teaching in Indian higher education institutions during the pandemic time. *Education and Information Technologies*, 29(4), 4107-4157.

Vaish, D., Shine, S., Garg, M., Agarwal, N. & Dhull, H. (2023). Corporate Social Responsibility, Financial and Human Resource Management: A systemic review and concept analysis. *The Seybold Report*, 18(12), 342-354.

Journal Published by the College

Prof. Rajiv Chopra, Dr Animesh Mohapatra (2023). *Intellectual Resonance DCAC Journal of Interdisciplinary Studies*. Delhi College of Arts and Commerce , NA(6), 01-239.

Seminar/Conference Presentations (National / International)

National

MK Meena presented a paper titled 'Impact of Digital Transformation and Electric Vehicles on Sustainability' at 3 day international conference on Sustainability Entrepreneurship - Building a Better India: Vision 2050 on October 5-7, 2023 at National Post Graduate College, Lucknow.

Pawan Kumar presented a paper on 'Exploring the Impact of Vision, Innovation, and Proactivity on the Social Entrepreneurial Intentions of University Graduates: A PLS-SEM Approach' at 74th All India Commerce Conference 2023 by ICA on 'One earth, One Family, One Future, Department of Commerce, University of Delhi on December 13-15, 2023.

Akanksha Aggarwal presented a paper entitled 'Crisis in Classrooms: Evidence on Impact of Conflict on Education from India' at the 18th Annual Conference on Economic Growth and Development, Indian Statistical Institute, Delhi on December 18-20, 2023.

Maharana Pyarimohan, presented a paper entitled 'Projected Energy and Hydrological budgets over the Indus River Basin under a Regional Climate Model Framework' at Impact of Climate change on water resources of Upper Indus River Basin- An UIBN initiative University of Kashmir on May 1-2, 2023.

Aakriti Kohli presented a paper entitled 'NEP and Re-imagining Pedagogical Practices: Producing Plural Knowledge Systems' at a National Seminar on NEP 2020 - Towards Holistic Education at ICSSR and Bharathi Vidyapeeth's Educational Society on October 13-14, 2023.

Neha Jingala presented a paper entitled 'Artificial Intelligence and News Media: Perception of Youth in India' at National Seminar on Ek Bharat Shreshtha Bharat: The Role of Media in Contemporary Scenario ICSSR and Centre for Media Studies, JNU on June 5-6, 2023.

Devender Bhardwaj presented a paper entitled 'Charting the Green Horizon: Exploring Recent Sustainability Trends shaping the Future of India' at National Seminar on Empowering Youth for a Sustainable tomorrow: Recent Trends and the Roadmap ICSSR, Chandigarh and Shri Sanatan Dharam Girls' College, Bhatinda on March 09, 2024.

National/International MoUs Signed

An MoU with Innovative Power Solutions for installation of street light poles.

An MoU with Innovative TALF SAC SOLAR URJA for installation of solar panels. An MoU with Talent sports for development and lease of college grounds.

An MoU with AV Financial Experts Network Private Limited (FinX) to run CA add-on courses. An MoU with Taxmann Academy to run tax and accounting add-on courses.

Placement Details

Number of students placed

59

Number of Companies visited for campus recruitment

44

Extension and Outreach Activities

ENACTUS, DCAC organized Zaraat Mart, a Farmer's Market initiative that directly connected local farmers with consumers, facilitating direct sales, providing farmers with improved opportunities for selling their produce & benefiting consumers from fresh and high-quality vegetables at affordable prices. It also conducted an awareness session in "Krishi Vigyan Kendra, Baghpat" to discuss and provide knowledge regarding Storage systems for agricultural produce available in India. It had also collaborated with Deepalya NGO for a book donation drive, performing collection & distribution of books to underprivileged children, promoting access to quality education and enhancing learning opportunities. Besides that, a Food Donation Drive was conducted with the "Robin Hood Army" as an initiative to provide help to the farmer communities in the midst of the crisis.

Prakriti- the Environment Society, DCAC organised a cleanliness drive under the Ek Tareekh Ek Ghanta program in collaboration with the National Service Scheme under the aegis of IQAC on October 1, 2023 in the Netaji Nagar Market, New Delhi. Members of both Prakriti and NSS joined hands in cleaning the Market and disposed the waste in a sustainable manner.

NSS, DCAC organised a blood donation camp and managed to collect 54 units of blood for the needy.

Library Development

The college library has experienced significant growth in 2023–2024, with the addition of 1023 new books, expanding its collection to approximately 62,842 books, along with 13 newspapers, 23 periodicals, and 541 CDs in English and Hindi.

Technological advancements like RFID technology and digital entry/exit systems have improved accessibility, while a dedicated webpage of library and membership in platforms like N-LIST and DULS ensure remote access to resources.

The implementation of an institutional repository using D-Space software provides access to archival materials, and the acquisition of ergonomic furniture enhances the study environment showcasing library's commitment to innovation and meeting user needs.

The college library has integrated advanced ICT solutions and innovative features to enhance its services, in the years 2023–2024 Full automation and computerization using the library management software KOHA on a cloud server enable remote access to library resources 24/7 through WEB-OPAC enabling users to manage their transactions, check availability, reserve books, and locate physical copies .

CCTV surveillance covers the entire library premises, ensuring security and safety.

Successful Implementation of Radio Frequency Identification (RFID) technology streamlines library operations, enhancing security, stock verification, and book retrieval processes. RFID smart cards facilitate borrowing and returning books, eliminating the need for reader tickets.

A book drop facility expedites returns, and self-circulation services are available through kiosks and book drop machines.

Faculty Strength

Professors: 17, Associate Professors: 18, Assistant Professors: 69, Ad-hoc: 0, Guest: 4

Financial Allocation and Utilization

Grants Allocated: Rs. 45,59,06,000/-

Grants Utilized: Rs. 44,30,03,000/-

DEEN DAYAL UPADHYAYA COLLEGE

Brief History of the College

Deen Dayal Upadhyaya College (DDUC) is one of the top constituent colleges of the University of Delhi, Delhi, India. Located at Dwarka, Delhi near Netaji Subhas University of Technology. It is fully funded by the Government of Delhi. It was established in August 1990 in the memory of Deen Dayal Upadhyaya, a philosopher, thinker and social worker.

Major Activities and Achievements

The college was garnered with a significant ranking of 11 amongst Science colleges, 17 amongst Commerce colleges, 17 amongst Management colleges and 41 amongst Arts colleges in India by the India Today-MDRA Best Colleges Ranking 2023. The college was ranked 24 out of 2,746 participating colleges in the NIRF India Rankings 2023 conducted by the Ministry of Education.

The college was selected under DBT Star College Status Program (2022 – 2025).

Honours/Distinctions

Faculty

Dr. Lalit Kumar received the Valley of Words (VoW) Book Award in December 2023 from the respected Ramesh Pokhriyal Nishank in Dehradun for his translation of 'The Bride: The Maithili Classic Kanyadan'.

Prof. Ravinder Kaur was awarded with 'Women Education leader of the Year' by International Institute of Influencers, at IISA 2023, Nation Building Carnival held on July 29, 2023 at Dubai.

Students

Kriti Sethi of BMS II Year achieved 2nd Position at 1st North Zone National Cestoball Championship.

Sameer Khan & Hitesh Goyal of BMS II Year became National Winners from 400 registrations at Jinzai '24, IIM Visakhapatnam.

Sumit Tomar of BA Eng (H) IIIrd year & Prikshit of B.Sc (H) Computer Science IIIrd year secured 3rd Position at the All-India Inter-University Baseball (Men) Tournament.

Nabh Garg & Anuj Pahuja of BMS III Year achieved a National Rank 3 EY CAFTA CC Mega Edition (November 2023).

Publications

Scopus Indexed Journals

Agasti, N., & Pani, B. (2023). Chemistry of ancient materials of iron in India. *Applied Surface Science Advances*, 18, 100456.

Anand, A., Narang, R., Rawal, D. S., Mishra, M., Saxena, M., & Gupta, M. (2023, June). A Compact Large-Signal Model Generation of GaN HEMT for RF Circuit Design Implication. In *2023 IEEE Wireless Antenna and Microwave Symposium (WAMS)* (pp. 1-4). IEEE.

Anand, A., Sehra, K., Chanchal, Reeta, Narang, R., Rawal, D. S., ... & Gupta, M. (2023). Impact of barrier layer thickness on DC and RF performance of AlGaIn/GaN high electron mobility transistors. *Applied Physics A*, 129(8), 563.

Bhutani, C., Khanna, P., Jain, M., Talwar, S., Yadav, S., & Khanna, L. (2023). The Recent Report on Schiff Bases and their Complexes as DNA Binders. *Current Organic Chemistry*, 27(20), 1799-1813.

Biswal, S. P., Panda, J., Samantaray, T., Swain, J., Bera, N. C., Agasti, N., ... & Lockard, J. V. (2023). Tuning the optical properties of zirconium-based metal-organic frameworks by post-synthetic modifications. *Materials Letters*, 346, 134497.

Cappiello, F., Verma, S., Lin, X., Moreno, I. Y., Casciaro, B., Dutta, D., ... & Mangoni, M. L. (2023). Novel peptides with dual properties for treating *Pseudomonas aeruginosa* keratitis: antibacterial and corneal wound healing. *Biomolecules*, 13(7), 1028.

Chaudhary, G., Kumar, M., Sehrawat, A. R., Kumar, S., & Tripathi, S. (2024). Optimization for nutritional fortification of wheat–millet composite flour mixture by response surface methodology.

Dahiya, D., & Jain, D. (2023). Revisiting the epoch of cosmic acceleration. *Research in Astronomy and Astrophysics*, 23(9), 095001.

Das, S., Kumari, V., Sehra, K., Gupta, M., & Saxena, M. (2023). On the double channel engineering of dual gate AlGaIn/GaN HEMTs for heavy ion sensing applications. *Micro and Nanostructures*, 182, 207653.

Dhal, P. B., Devi, R. S., Bhadouria, R., & Tripathi, S. Phytohormones: Role in Ecophysiological Responses of Tropical Plants to Varying Resource Availability. In *Ecophysiology of Tropical Plants* (pp. 265-283). CRC Press.

Genwa, M., Singh, J., Manohar, S., & Angrish, C. (2023). Pruning the Chemical Requirements in the Detection of Functional Groups in Organic Compounds and Ions in Inorganic Salts: A Greener Outlook. *Journal of Chemical Education*, 100(12), 4786-4790.

Gesteira, T. F., Verma, S., & Coulson-Thomas, V. J. (2023). Small leucine rich proteoglycans: biology, function and their therapeutic potential in the ocular surface. *The Ocular Surface*, 29, 521-536.

Gupta, N., & Kumar Pant, S. (2023). d-balanced squeezing function. *Complex Variables and Elliptic Equations*, 68(4), 619-631.

Joshi, R., Verma, N., & Mohan, M. (2023). Shannon entropy along hydrogen isoelectronic sequence using numerov method. *Revista Mexicana de Física*, 69(6 Nov-Dec), 060401-1.

Khanna, L., Talwar, S., Misra, N., Jain, S. C., & Khanna, P. (2023). Molecular docking, MD simulations and ADME studies of phytoconstituents of *Plumeria alba* as potential antidiabetics.

- Kirtania, D. K. (2023). OpenAI ChatGPT for library and information science (LIS) professionals. Available at SSRN 4404903.
- Kumar, D., Jain, D., Mahajan, S., Mukherjee, A., & Rana, A. (2023). Constraints on the transition redshift using Hubble phase space portrait. *International Journal of Modern Physics D*, 32(06), 2350039.
- Kumar, M., Parveen, Raj, N., Khatoon, S., Fakhri, K. U., Kumar, P., ... & Kapur, M. K. (2024). In-silico and in-vitro evaluation of antifungal bioactive compounds from *Streptomyces* sp. strain 130 against *Aspergillus flavus*. *Journal of Biomolecular Structure and Dynamics*, 1-19.
- Kumar, R., Nagar, S., Haider, S., Sood, U., Ponnusamy, K., Dhingra, G. G., ... & Lal, R. (2023). Monkeypox virus: phylogenomics, host–pathogen interactome and mutational cascade. *Microbial Genomics*, 9(4), 000987.
- Malik, A., Sehra, K., Laishram, R., Nair, R. M., Mishra, M., Rawal, D. S., & Saxena, M. (2023). Physical insights into the reliability of sunken source connected field plate GaN HEMTs for mm-wave applications. *Microelectronics Reliability*, 148, 115170.
- Malik, H. K. (2023). Excitation of THz plasmonic eignmode of parallel plain waveguide by using GaAs material. *Results in Optics*, 12, 100457.
- Mohan, V., Sandeep, S., Deepa, R., Shah, B., & Varghese, C. (2007). Epidemiology of type 2 diabetes: Indian scenario. *Indian journal of medical research*, 125(3), 217-230.
- Mohan, V., Sandeep, S., Deepa, R., Shah, B., & Varghese, C. (2007). Epidemiology of type 2 diabetes: Indian scenario. *Indian journal of medical research*, 125(3), 217-230.
- Molnar, M., & Čačić, M. (2011). Biološka aktivnost derivata kumarina–pregledni rad. *Croatian journal of food science and technology*, 3(2), 55-64.
- Moreno, I., Verma, S., Gesteira, T. F., & Coulson-Thomas, V. J. (2023). Recent advances in age-related meibomian gland dysfunction (ARMGD). *The Ocular Surface*.
- Muccino, M., Luongo, O., & Jain, D. (2023). Constraints on the transition redshift from the calibrated gamma-ray burst E p–E iso correlation. *Monthly Notices of the Royal Astronomical Society*, 523(4), 4938-4948.
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- Preeti, Bala, R., & Singh, R. P. (2023). Prediction of incident solar radiation using a hybrid kernel based extreme learning machine. *International Journal on Artificial Intelligence Tools*, 32(01), 2350004.
- Ramireddy, V. S. R., Kurakula, R., Chellam, P. V., James, A., & van Hullebusch, E. D. (2023). Systematic computational toxicity analysis of the ozonolytic degraded compounds of azo dyes: Quantitative structure-activity relationship (QSAR) and adverse outcome pathway (AOP) based approach. *Environmental Research*, 231, 116142.

- Sandeep, S., & Malik, H. K. (2023). THz generation by a periodic array of a photoconductive antenna of GaAs material in the presence of a magnetic field. *J. Theor. Appl. Phys*, 17(1), 1-6.
- Sandell, R., Blomberg, J., Lazar, A., Carlsson, J., Broberg, J., & Schubert, J. (2000). Varieties of long-term outcome among patients in psychoanalysis and long-term psychotherapy: a review of findings in the Stockholm outcome of psychoanalysis and psychotherapy project (Stoppp). *The International journal of psycho-analysis*, 81(5), 921.
- Sehra, K., Anand, A., Kumari, V., Gupta, M., Mishra, M., Rawal, D. S., & Saxena, M. (2023). Efficacy of Π -gate in RF power performance of thin GaN buffer AlGaIn/GaN HEMTs. *IEEE Transactions on Electron Devices*, 70(5), 2612-2615.
- Sehra, K., Anand, A., Malik, A., Kumari, V., Gupta, M., Mishra, M., ... & Saxena, M. (2023). Efficacy of back barrier engineered Π -gate InAlN/GaN high electron mobility transistors for high-power applications. *Journal of Physics D: Applied Physics*, 56(40), 405112.
- Sharma, M., Narang, R., Saxena, M., & Gupta, M. (2023). A comprehensive study of InGaAs based linearly graded channel DL-TFET and its single event transient effect. *Engineering Research Express*, 5(3), 035054.
- Shichiri, M., Kishikawa, H., Ohkubo, Y., & Wake, N. (2000). Long-term results of the Kumamoto Study on optimal diabetes control in type 2 diabetic patients. *Diabetes care*, 23.
- Singh, A., Umakanth, V., Tyagi, N., & Kumar, S. (2023). A comparative study of different polymer materials for the development of flexible crystalline silicon modules. *Solar Energy Materials and Solar Cells*, 255, 112259.
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- Singh, D. R., Sunuwar, D. R., Shah, S. K., Karki, K., Sah, L. K., Adhikari, B., & Sah, R. K. (2021). Impact of COVID-19 on health services utilization in Province-2 of Nepal: a qualitative study among community members and stakeholders. *BMC health services research*, 21, 1-14.
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- Soni, A., Jain, S., Karki, M., Gaur, V., & Kochhar, S. K. (2023). Topic Modelling, Classification and Characterization of Critical Information. *International Journal of Computing and Digital Systems*, 14(1), 1-1.
- Thokchom, S. D., Gupta, S., Mewar, S. K., Kumar, P., Kalra, C., & Kapoor, R. (2023). Metabolome profiling of arbuscular mycorrhizal fungus treated *Ocimum tenuiflorum* L. provides insights into deviation in allocation of carbon compounds to secondary metabolism. *Plant Physiology and Biochemistry*, 203, 108039.
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- Verma, S. K., Verma, R., Girish, Y. R., Verma, S., Pramoda, K., Vaishnav, Y., ... & Kumar, K. S. S. (2023). Two-dimensional Ti₃C₂T_x MXenes as a catalyst support for the synthesis of 1, 4-disubstituted-1, 2, 3-triazoles via azide-nitroalkene oxidative cycloaddition. *Journal of Molecular Structure*, 1281, 135145.

Verma, S., Moreno, I. Y., Sun, M., Gesteira, T. F., & Coulson-Thomas, V. J. (2023). Age related changes in hyaluronan expression leads to Meibomian gland dysfunction. *Matrix Biology*, 124, 23-38.

Verma, S., Moreno, I. Y., Trapp, M. E., Ramirez, L., Gesteira, T. F., & Coulson-Thomas, V. J. (2023). Meibomian gland development: Where, when and how?. *Differentiation*, 132, 41-50.

Verma, S., Ogata, F. T., Moreno, I. Y., da Silva, C. P., Marforio, T. D., Calvaresi, M., ... & Gesteira, T. F. (2023). Rational design and synthesis of lumican stapled peptides for promoting corneal wound healing. *The Ocular Surface*, 30, 168-178.

Yadav, D., Tyagi, N., Yadav, H., James, A., Sareen, N., Kapoor, M., ... & Singhal, K. (2023). Effect of various morphologies and dopants on piezoelectric and detection properties of ZnO at the nanoscale: a review. *Journal of Materials Science*, 58(26), 10576-10599.

Yadav, S., Bhatt, V., Bhattacharjee, A. B., & Jha, P. K. (2023). Optical bistability and entanglement in two optically coupled cavities under the effect of a nonlinear medium. *Journal of Modern Optics*, 70(11), 731-741.

UGC Care-list Indexed Journals

Kalra, C., Bharti, S., Bhatnagar, S., Giri, B., & Kumari, R. Arbuscular Mycorrhizal Fungi as Potential Agents in Augmenting Growth and Stress Tolerance in Plants.

Joshi, R., Verma, N., & Mohan, M. (2023). Shannon entropy along hydrogen isoelectronic sequence using numerov method. *Revista Mexicana de Física*, 69(6 Nov-Dec), 060401-1.

Research Projects

SERB-POWER, I-V and C-V characterization of sub-micron Design, Optimization and Fabrication of Radiation Hardened Sub 0.15-micron gate length InAlN/GaN HEMT for Ku band application. Sanctioned amount of Rs. 58.83 Lakhs. PI: Prof. Manoj Saxena.

SERB, Development of Thermoelectric Energy Harvester using Indium Selenide thin films. Sanctioned amount of Rs. 31.84 Lakhs. PI: Prof. P. K. Jha.

SSPL, DRDO, Device Simulation for Advanced GaN HEMT Architectures for Ku band Application. Sanctioned amount of Rs. 30.48 Lakhs. PI: Prof. Manoj Saxena.

DST, Study of optical properties of magnon dynamics for quantum device applications. Sanctioned amount of Rs. 30 Lakhs. PI: Prof. P. K. Jha.

CSIR, Modelling of Sensitive Ring Laser Gyroscope for Meteorological Application. Sanctioned amount of Rs. 29.8 Lakhs. PI: Prof. P. K. Jha.

Patents Filed/Granted

Title: "Photo-electrochemical water splitting based biosensor for detecting uric acid in the biological fluids", Reference no.- 202311040935.

Seminars Organized

DBT, International Symposium on Frontiers in Applied Science (IFSAS'24) by Department of Biological Sciences and Engineering, Netaji Subhas University of Technology (NSUT), Delhi; Scientia Senior

Lecturer, School of Materials Science and Engineering, University of New South Wales, Kensington, Sydney, NSW Australia; Special Centre for Nanoscience, Jawaharlal Nehru University, New Delhi, Delhi; Dept. of Medical Lab Technology, Faculty of Paramedical Sciences, Uttar Pradesh University of Medical Sciences, Uttar Pradesh; Cheminformatician, Deepmatter, Munich, Germany and Amity Institute of Nanotechnology, Amity University, Noida. Resource persons included Gagan Dhawan; Prof. Sonika Bhatnagar; Dr. Tushar Kumeria; Dr. Vinod Kumar; Dr. Bhagat Singh; Dr. Praveen K. Budakoti and Prof. Ranu Nayak, DU and was held on March 19, 2024.

Seminar entitled, 'Climate resilient biotechnology for wastewater treatment and reuse' in collaboration with various institutions, held on November 4, 2023. Prominent speakers included Prof. Claudia Ciniglia; Dr. Artin Hatzikioseyan; Dr. S. V. Srinivasan; Dr. V. C. Padmanaban; Dr. Qian Hu; Dr. Suchanya Wongrod; Dilruba Akter; Omar Abdeldayem; Jiaji Sun; Gennaro Trancone; Jacobo Perez-Barragan; Juan Jose Rodriguez-Reyes; Ashmita Patro; Saurabh Dwivedi and Dr. Eldon R. Rene.

Webinar entitled 'Intellectual Property Rights and IP Management for Start-ups', by Co-Founder and CEO of Be-Boss, Global Start-up Ecosystem; Webinar on 'Interacting with Innovation and Start-up Enabler' on September 4, 2023.

Webinar on 'Intellectual Property Rights and IP Management for Start-ups', by Mr. Harinder Narvan, Founding Partner and Patent Attorney, Knowledgentia Consultants on July 10, 2023.

Conferences Organized

Organized XXV Annual International Conference on the broad theme "WORLD PEACE: An essential ingredient for survival of humanity & the planet" on January 6, 2024 by ICSSR.

Organized Annual International Commerce Conference – 2024 on Viksit Bharat in Amrit Kaal on March 14, 2024 by ICSSR & Nergy..

Seminar/Conference Presentations (National / International)

National

Manoj Saxena

invited as IEEE Distinguished Lecture (DL) in IEEE EDS Mini-Colloquium jointly held with 3rd International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS-2023) from January 29-31, 2023 at IEEE ED National Institute of Technology Silchar Student Branch Chapter, Assam, India.

invited in IEEE Distinguished Lecture (DL) talk on "Journey through Three Magical Months 75 years ago : Transistor Invention" in the one-day Mini Colloquium (MQ) on "Latest Advances in Electronic Devices and Circuits" in the Department of Electronics, University of Jammu in collaboration with IEEE EDS Delhi Chapter on November 30, 2023

Ravinder Kaur delivered a speech on Advanced Credit Program-2023 (Level-2), Flagship Program of Chandigarh University on September 09, 2023.

Sunil Kumar invited as Keynote Speaker in one day National Webinar on “Purpose and Effect of Value Based Education” organized by Savrgiye Nagulal Malvia Shaskiye Mahavidhalya, Gattia, Ujjain and Higher Education Department M.P. on August 14, 2023.

Charu Kalra

Delivered lecture on the topic Dragon fruit: nutraceuticals and its sustainable development in awareness workshop on “Use of non-traditional crop and medicinal plant “Dragon Fruit” for health and healthy environment” for Farmers/Students/Stakeholders on March 19, 2024, organized by Baba Farid University of Health Sciences (BFUHS), Faridkot.

Invited as Keynote Speaker on National Youth Day organized by MDU-CPAS, Gurugram University on January 12, 2024.

Ravinder Kaur

Delivered a speech on Advanced Credit Program-2023 (Level-2), Flagship Program of Chandigarh University on September 09, 2023.

Invited as Guest Speaker in the Capacity building and Leadership Programme, organized by Chandigarh University on August 29, 2023.

Invited as Guest Speaker in the Faculty Development Program (FDP) on “Role of Emerging Technologies in Industrial Revolution” at Chandigarh University on July 7, 2023.

National/International MoUs Signed

Various MoUs signed with different institutions that entails exchange programs, Skill enhancement and training.

A MoU with CSIR–Central Engineering Electronics Research Institute (CSIR-CEERI) on September 08, 2020 to encourage the development of exchange programs based on their respective academic and educational needs. Still continuing.

A MoU with PhiXgen Pvt. Ltd on May 03, 2019 for strengthening Bioinformatic skills. Still continuing.

A MoU with NIELIT Delhi Centre, Ministry of Electronics and IT on April 25, 2024 to run specialized and economical online and offline training programs which can be joined by a student of B. Sc./ B. Tech. / M. Sc. Courses in Electronics or Computer Sciences.

Placement Details

No. of students placed

30

Number of Companies visited for campus recruitment

31

Extension and Outreach Activities

A Cleanliness Drive was conducted in collaboration with Bhumi Organization to increase awareness and address the problem of waste in our surroundings on September 20, 2023.

A two-day Outreach Training Program for underprivileged children at Asha Grih Home, Dwarka, was conducted, with the program focusing on computer fundamentals, including Microsoft Word, PowerPoint, Google Forms, Drive, and Docs, providing valuable skills to the participants on October 19-20, 2023.

A Sanitary Pad Distribution Drive in collaboration with the NSS unit of Vivekanand College was organised at Bharti Vidhya Niketan School to spread awareness about menstrual hygiene among young girls on October 17, 2023.

A Blood Donation Camp preceded by a session on Blood Donation was arranged by NSS unit and the Red Ribbon Club (RRC) in association with Blood Connect, with the aim of educating students about how blood donation aids in lowering stress, enhancing mental stability, enhancing physical health on October 27, 2023.

A Walkathon was organized along with Cleanliness Drive around JJ Colony, Dwarka to help make the area a better place to reside. The cleanliness drive was a part of Bhumi NGO's Daan Utsav activities on October 31, 2023.

A Donation Campaign in collaboration with Bhoomi NGO was organized. The contributions included clothes, stationery, and books symbolizing the essence of benevolence and community support on November 11, 2023.

Volunteers celebrated Children's' Day by contributing sweets to the underprivileged highlighting the celebration of youth, friendliness, and generosity of spirit on November 14, 2023.

A project exhibition and fun game stalls on the occasion of Diwali was organized. Project Kalariddhih Stall- The stall provided a platform for skilled artisans to showcase their talents, and for the patrons to contribute to a meaningful cause with their purchases on November 8, 2023.

Organized a cloth donation drive aimed at providing clothing to those in need on December 12, 2023. Collection point was set up at 5th floor of college to facilitate donations.

In Hope: I Dare Divya Utsav event was organized by the Office of the State Commissioner for Persons with Disabilities, the Department of Social Welfare, and the Directorate of Education, Government of Delhi, in partnership with the NSS unit of Maitreyi College to celebrate the spirit of inclusivity and empowerment on December 4 – 5, 2023 (World Disability Day).

The Electoral Literacy Club in collaboration with the National Service Scheme, held an online pledge with the theme Nothing Like Voting, I Vote for sure on January 25, 2024.

Project Kalariddhih started with the small idea of providing employment to a community to make them generate a sustainable income through the means of making various handcrafted products. The drive aimed at meeting the women employed under the project on February 17, 2024.

Production drive 1 on February 24-25, 2024, under Project Kalariddhih was aimed at upskilling the women wherein, the Enactus team taught the community the skills required to make the products. The women employed were first taught how to make bracelets, earrings, phone charms and then they made the required products themselves, helping women to upskill themselves.

A Nukkad Natak, staged by the Sukhmanch Theatre Group, was organized in collaboration with Breakthrough Trust, followed by a session with renowned police officer SI Bharti Dahiya as Keynote speaker to raise awareness about various forms of gender-based violence pervasive in the society.

The Social Responsibility Cell, DDUC, in collaboration with Prasharya Welfare Foundation, conducted a Menstrual Hygiene Awareness and Pad Distribution Drive at the J.J. Colony in Dwarka Sector 16, with an

aim to address the crucial issue of menstrual hygiene and provide support to women in need on February 11, 2024.

Production drive 2 on March 10, 2024 under Project Kalariddhih was aimed to teach the women community how to make handmade canvas using papier mâché to be sold as home decor items in the market.

Product exhibition stalls were set up at Janki Devi Memorial College, Sri Guru Gobind Singh College of Commerce and Shyam Lal College in the month of March with the aim of providing a platform to showcase the products and the efforts put in by the marginalized women.

Four volunteers from DDUC NSS unit donated blood in Venkateshwara Hospital in Sector 18 on March 6 and March 9, 2024.

Library Development

The College has an excellent fully air-conditioned central library facility spread over three floors with a total floor area of 2,550 sq. meters. It has a provision for a separate reading section for the faculty and spacious reading hall to accommodate 300 students. To facilitate e-learning, it has a dedicated Computer Hub comprising of 20 computer systems including a network printer to access e-resources available through internet and other resource sharing network.

The library has been successfully undertaking automated operation since last 20 years using professional database software through network of client-server systems recently move in to web-based open source application software KOHA.

The library holds around 50,837 books, including 1248 volumes of books in current financial year, subscription to 44 journals & magazines of national and international repute and 15 national newspapers. It has 613 bound volumes of journals/ periodicals and 850 CDs in its collection. The entire collection witnesses a total footfall of approximately 28170 visitors resulting into closed to 30,000 transactions. Interested students of the weaker sections are also issued books under book-bank facility comprising of 1632 volumes of books, benefitting around 277 students in this year. The library has membership of Sugamya Pustakalya whereby reading materials in the form of audio books etc are made accessible to student to PwBD Category students. In addition, the library also provides internet-based access to e-resources and print-out services. As many as 53 databases, 30,000 e-journals and more than two lakh e-books can be retrieved electronically through various resource sharing networks namely DULS, e-ShodhSindhu and N-LIST. The library provides User Orientation to the new batch of students when the fresher students arrived in the library through personal interaction.

The library compiled one comprehensive issue of Bibliography comprising of new titles acquired during the FY April, 2023- March, 2024. It also compiled two issues of Table of Contents comprising of content pages of all the issues of magazines & journals subscribed in the library April - June, 2023 and July – December, 2023. The library subscribes to institutional membership of resource sharing network, ‘DELNET’ which augmented its print and e-collection as well as services. The library organized a book exhibition, on November 29-30, 2023, in which as many as 10 prominent publishers and vendors participated. The event was participated by many students and faculty which also facilitated acquisition of relevant books in the library. Question-papers of previous years have been uploaded on the library Web-OPAC page. Login-id for subscribed e-resources under N-LIST program through INFLIBNET-UGC and Remote login-id for access to e-resources subscribed by the Delhi University Library System were also provided to interested students and faculty members.

Faculty Strength

Professors: 17, Associate Professors: 58, Assistant Professors: 9, Ad-hoc: 12, Guest: 55

Financial Allocation and Utilization

Grants Allocated: Rs. 51,60,20,745.77/-

Grants Utilized: Rs. 51,60,20,745.77/-

Other Significant Information

The college has been selected under DBT Star College Status Program (2022 – 2025) and has been sanctioned Rs.1,61,87,340/-.

Three new ICT Labs were inaugurated on the occasion of Founders Day, September 25, 2023 which are equipped with 5 work stations, 2 High-end servers, 345 desktops, a DSLR camera and an interactive panel for video conferencing. All the staff members of the college were provided with 130 latest and fully equipped laptops.

The College Kulgeet was composed by Shri Gajendra Solanki and was released on the Founders Day of the college.

DESHBANDHU COLLEGE

Brief History of the college

Deshbandhu College is a college established in 1952 and affiliated to University of Delhi. Deshbandhu College was established in 1953 by the Ministry of Rehabilitation, as a memorial to freedom fighter Deshbandhu Gupta.

Major Activities and Achievements

College received World Ecology Environment and Development (WEED) award and Plastic Free College award. Under green initiative, carbon footprint audited & Continuous Air Quality Monitoring Stations operated by DPCC/CPCB, a project under nZEB Program sanctioned by the Bureau of Energy Efficiency (BEE). College took major initiatives like rainwater harvesting, creation of Green Belt, Bird-house initiative, Efficient waste management using DBC-Advanced Integrated Composting Facility.

Honours/Distinctions

Faculty

Dr. Bajrang Bihari Tiwari was awarded with Srijan Paksha Samman , Bhopal on June 25, 2023 for his overall contribution in Literature.

Dr. Umesh Kumar received the ‘Best Paper Award’ in ‘2nd International Conference on Recent Trends in Materials Science & Devices 2023 (ICRTMD-2023)’ organized by Research Plateau Publishers in association with Sant Kabir Institute of Technology & Management, Bahadurgarh, Haryana, during December 29-31, 2023.

Dr. Pratibha Kumari was awarded with “INSA Visiting Scientist Award-2023-24 by Indian National Science Academy -INSA.”

Publications

Scopus Indexed Journals

Aggarwal, M., Kumar, P., Gupta, S., & Mishra, R. (2024). Impact Assessment of NEP and IPR on Institutes of Higher Education. *Journal of Intellectual Property Rights (JIPR)*, 29(2), 120-126.

Ahuja, H., Narang, S., & Saxena, R. (2023). A Novel Framework to Strengthen Early Warning Systems. *Engineering, Technology & Applied Science Research*, 13(5), 11917-11923.

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Chatterjee, K., Alka, Kumar, S., Sharma, R. K., & Kumari, P. (2023). Effective Removal of Nitrogenous Pesticides from Water Using Functionalized Calix [4] arene-Decorated Magnetite Nanoparticles. *ChemistrySelect*, 8(3), e202203426.

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Dhanyashree, S. V., Jahnavi, H. K., Harini, H. V., Prasad, S. R., Nagaswarupa, H. P., & Naik, R. (2024). 7 Design and Development. *Multifunctional Inorganic Nanomaterials for Energy Applications*, 96.

Gangwar, L. K., Sharma, V., Choudhary, A., Sumana, G., Pandey, S. S., Tanaka, H., & Biradar, A. M. (2023). Optical and dielectric realisation of biomolecular detection using gold nanoparticles bio-conjugate with liquid crystal. *Journal of Molecular Liquids*, 380, 121754.

Gupta, S. R., Mittal, P., Kundu, B., Singh, A., & Singh, I. K. (2023). Silibinin: an inhibitor for a high-expressed BCL-2A1/BFL1 protein, linked with poor prognosis in breast cancer. *Journal of Biomolecular Structure and Dynamics*, 1-11.

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Jha, S. K., & Jha, A. (2023). Sustainable utilization of renewable plant-based material for the green synthesis of metal nanoparticles.

Jha, S. K., Yadav, S., Sharma, M., Puri, N. K., & Kuanr, B. K. (2024). Reciprocal and non-reciprocal electromagnetic wave propagation in sub-100 nm epitaxial YIG thin films deposited under different oxygen growth pressure. *Journal of Magnetism and Magnetic Materials*, 596, 171972.

- Kauser, S., Mughees, M., Mangangcha, I. R., Swami, S., & Wajid, S. (2023). Secretome profiling of *Artemisia absinthium* extract-loaded polymeric nanoparticle-treated MCF-7 and MDA-MB-231 revealed perturbation in microtubule assembly and cell migration. *Frontiers in Oncology*, 13, 1209168.
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UGC Care-list Indexed Journals

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Sharma, R. K., Bhatia, B., Chhibbar, A. K., Mukherjee, S., & Kumari, K. (2024). Substitute of Light Requirement for Germination in Positive Photoblastic Seeds of Inula racemosa-A Critically Endangered Medicinal and Aromatic Plant of North-Western Himalaya, India. *International Journal of Ecology and Environmental Sciences*, 50(3), 377-383.

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Journal Published by the College

(2023). *Deshbandhu Journal of Social Sciences* ISBN 978-93-95133-03-6 ISSN 2583-7974. Deshbandhu College , 1(1), 138

Research Projects

Government of India, Ministry of Ayush, National Medicinal Plants Board, IEC on Ashwagandha. Sanctioned amount of Rs. 18.90 Lakhs. PI: Prof. Sunil Kayesth.

Life Science Research Board, DRDO, Design and development of smart nanomaterial-based biosensors for pesticide detection in food. Sanctioned amount of Rs. 26.87 Lakhs. PI: Dr. Pratibha Kumari.

SERB, DST, New Delhi, India, Exploration of Earth Abundant Metal(s) [Ni, Co and Fe] Based MOFs as Electrocatalysts for Water Splitting and Oxygen Reduction Reactions. Sanctioned amount of Rs. 18.3 Lakhs. PI: Dr. Umesh Kumar.

SERB-DST, Identification of the molecular mechanism of mechanotransduction pathways that act upstream of Hippo Pathway for treatment of breast cancer. Sanctioned amount of Rs. 10 Lakhs. PI: Prof. Indrakant K. Singh.

ICMR, Immunotherapeutic role of Vitamin A (Retinoic acid) in the in vitro model of tuberculosis. Sanctioned amount of Rs. 10 Lakhs. PI: Prof. Indrakant K. Singh.

Seminars Organized

Seminar entitled ‘Water: Clean World under the initiative Project Amrit: Water Cleaning and Conservation Initiative’, by Ministry of Culture, GOI and Viksit Bharat@2047 and Prof. Pankaj Singh, DU on February 4, 2024.

Seminar entitled ‘Bhartiya Bhasha Utsav’ by Ministry of Education, GOI and Prof. Ravi Prakash, DU on December 6, 2023.

International Webinar entitled ‘Ecology and Evolution of Bacterial Interactions’ by Dr. Samir Giri, DU on April 17, 2023.

International Symposium on ‘Battling Biting Bugs: Besting Leishmaniasis’ by Prof. Dr. Eva Gluenz, DU on February 22, 2024.

Conferences Organized

International Conference on “Integrative Chemical Science for Health & Environment-2023 (ICHE-2023) on October 6, 2023 in collaboration with NSERB, DRDO, DBT, CSIR, Ministry of Earth Sciences, Royal Society of Chemistry, American Chemical Society.

National Conference on “Sahitya me Swarg” under the aegis of IQAC on November 22, 2023.

National Conference on E-Summit’ 24, under the aegis of Viksit Bharat@2047, February 26, 2024.

Seminar/Conference Presentations (National / International)

National

Sunil Kayesth

Delivered lecture, entitled, “Natural Products and Human Health— A special focus on Indian Ginseng *Withania somnifera* (L.) dunal” on October 10, 2023, at Padre Albino University Center, Catanduva, Sao Paulo, Brazil.

Delivered a short course, entitled, “A sustainable developmental approach for ecological landscaping” on October 10, 2023, at Padre Albino University Center, Catanduva, Sao Paulo, Brazil.

Delivered an invited talk, entitled, “Therapeutic Potential of Indian Ginseng, *Withania somnifera* on November 3, 2023, at the 6th Hunan International Conference for Innovation and Development for Biomedicine and Chinese Medicines (BioCM-6) at Changsha, Hunan University of Chinese Medicine, China.

Delivered an invited talk, entitled, “Anti-inflammatory lead compounds against influenza and Covid-19 virus infections and other immunity-related disorders” at the IV International Conference on combating new coronavirus infection and other infectious diseases (7–8 December, 2023) and the International Conference “Results and Future Potential for Cooperation Between Joint Research Centers in Africa, Asia and South America for the Study and Prevention of Infectious Disease” (December 9, 2023) organized by St. Petersburg Pasteur Institute, St. Petersburg, Russia.

Indrakant K. Singh presented lecture on “ZINC1250228067: A Promising Therapeutic for Permanent Vision Loss at ICBTM 2024” at Pacific University, Udaipur, Rajasthan, International, on March 9, 2024.

Pratibha Kumari invited talk on “Development of nanocellulose-based materials for food safety applications”, 28th ISCB International Conference (ISCBC-2024) on “Recent Advances in Biological, Chemical, and Pharmaceutical Sciences for Innovation in Healthcare” jointly organized with Department of Chemistry and Department of Pharmaceutical Sciences, Marwadi University, Rajkot at Marwadi University, Rajkot, Gujarat, India from January 8-10, 2024.

Bajrang Bihari Tiwari was invited as a Speaker in an International Seminar at Lalit Narayan Mithila Vishwavidyalaya, Darbhanga on April 11-12, 2023.

Vandana presented a paper entitled "Killing Me Softly: Of Murdered Streams and Ecosystems" in a conference on "Imagining Environmental Justice in a Postcolonial World" at the 18th Triennial Conference of the European Association of Commonwealth Literature and Language Studies (EACLALS) held in Paris during June 6-10, 2023.

Sushmita presented a paper entitled "Towards a Harmonious and Sustainable World: Insights from Buddhist Studies" in 17th International Conference on Pali And Buddhist Studies (ICPBS 2024).

National/International MoUs Signed

A MOU & Strategic Partnership Agreement with Pasteur Institute of Epidemiology and Microbiology, Russia on March 27, 2024.

A 5 year International MoU with Centro Escolar University, Philippines on April 3, 2023 for Academic Staff Development, Exchange of Students, Exchange of Faculty Members, Joint Research Projects, Joint Conferences, Joint Cultural Programs and Other mutually beneficial projects.

A MoU with Arontier Co. Seoul Korea on September 30, 2022 for Joint Research Projects, Publications in Research Journal, Patents, Academic Material, Exchange of Research Students/ Project Investigator(s), organization of International and National seminars, workshops.

A 5 year MoU with Palacky University Olomouc, Czech Republic on March 6, 2023 for Collaborative research and innovation, Mobilizing resources and investments, Sharing of skills for staff and students,

exchanges and collaboration, organize Seminars/ Workshops/ Conferences and Short term training programmes.

1 year MoU with K. R. Mangalam University on October 31, 2023 for Academic and Research collaboration, Joint publications, exchanges, joint workshops and seminars on the job training, Scholarly information, Faculty development programs.

MoU with Green-O-Tech India on January, 5, 2024 for waste paper cycling.

Two weeks MoU with Ramanujan College in collaboration with PMMMNMTT for Refresher Course in Physics from August 18, 2023.

MoU with Pettigrew College of Manipur University on September 2, 2021 for Vidya Vistar Scheme.

5 year MoU with University of Delhi, and School of Open Learning and Bhaorao Deoras Sewa Nyas on February 7, 2023 for Collaboration to work together in the area of Career Counselling, Skill Development, Employment, Entrepreneurship Development, Start-up Support and Mentorship Program.

Placement Details

No. of students placed

66

Number of Companies visited for campus recruitment

68

Extension and Outreach Activities

The C20 Samajshala initiative, led by the Unnat Bharat Abhiyan Unit of Deshbandhu College, successfully conducted an awareness campaign in Bhati Mines Village on May 25, 2023, focusing on environmental conservation and sustainable practices. Key highlights included the importance of trees in maintaining ecological balance, the innovative use of vegetable and fruit peels to create organic liquid fertilizer, and the critical role of water conservation. The campaign effectively communicated the significance of individual actions in contributing to a healthier, greener community and encouraged the adoption of practices such as composting, efficient water use, and tree planting, benefiting 105 people.

An event was organized in Sultanpur village on August 15, 2023 on the eve of 77th Independence Day. All activities were planned under the aegis of “Meri Maati Mera Desh”, a campaign launched by Govt of India, paying tribute to the ‘Veers’ the unsung heroes who sacrificed their lives for the nation, celebrating the day with the hoisting of flag, singing national anthem, selfie with Tiranga, performances by children, ‘Paanch Pran Pledge’ and then planting tree saplings. All activities were well participated by the residents of Sultanpur village benefiting 125 people.

Under Swachh Bharat Abhiyan a ‘Sustainable Living Practices’ drive was organized in collaboration with ZORA, a flagship program under the millennium network and United Nations Sustainable Goals, on October 2, 2023 in Satbari village. The event witnessed the distribution of sanitary pads along with cloth bags which was aimed to promote hygienic practices among women and girls and to promote the use of ecofriendly alternatives to plastic bags, impacting 90 people.

A free multidisciplinary medical health checkup was organized in Satbari village on November 4, 2023, New Delhi, in collaboration with the Rotary Club Delhi Ridge and under the guidance of Prof Varsha Baweja, Dr. Ashawani Kumar Singh, Dr. Geeta and Mr Tushar. The health camp offered a wide range of services, including physical examinations, blood sugar and blood pressure tests, ECGs, dental check-ups, and eye exams, all conducted by the trained and experienced medical staff from the Apollo Hospital, Delhi, benefiting 200 people.

A Gram Sabha was held in Satbari village on January 26, 2024, to celebrate the 75th Republic Day. The event was coordinated by a team of 20 student volunteers, led by Ms Saumya Singh of UBA, Deshbandhu college. The Gram Sabha also served as a platform for discussing key issues like waste management, health, education, water conservation, and sanitation. Children's performances of folk dances and patriotic songs added to the vibrancy. The event concluded with prize distribution to children and sharing of ladoos and biscuits, symbolizing unity, patriotism, and a commitment to holistic development.

Ten UBA team members from Deshbandhu College visited a senior secondary school in Sultanpur village to raise awareness about the CUET exam and its counselling on February 8, 2024. The session included providing essential information about the exam process, form filling process, subject selection, qualifying criteria, college options, and syllabus coverage, benefited 60.

'Ek Kadam Swachhata Ki Ore', an initiative to foster community service, to clean public places and maintain sanitation and spread awareness about hygiene practices, taking commendable initiative on October 1, 2023 to work together.

A team of NSS volunteers visited the Rojavanam old age home on March 1, 2024 to interact and brighten the days of elders of our nation under the aegis of ViksitBharat@2047 benefiting 70 people.

NSS unit organized various Donation camps and drives such as cloth donation drive, a donation drive in collaboration with Pehchaan, Diwali Donation drive, Stationery donation drive, Cleanliness Camp under Swachhata hi Seva campaign, and many more to spread charity and happiness benefiting 120.

Nukkad naatak on the theme of air pollution was performed on November 19, 2023 to raise awareness about air pollution at Red Fort Delhi organised by 4 Delhi boys battalion.

15 NCC cadets along with NGO "Youth for Nation" volunteered with medical staff for taking care of accidental / injured cases at AIIMS TRAUMA Center South Extension, Delhi on March 25, 2024.

Library Development

The college library has added 2093 books during 2023-24, subscription to DELNET Annual Institutional Membership (January 18, 2023 - January 17, 2024), and N- List to access e- journals & e- books. Upgradation of library software i.e. web-centric LSEase on the Cloud Platform and addition of new tables in the library is being done. The College library organises a library orientation programme for first-year students at the beginning of the academic session.

Faculty Strength

Professors: 25, Associate Professors: 51, Assistant Professors: 137, Ad-hoc: 1, Guest: 20

Financial Allocation and Utilization

Grants Allocated: Rs. 88,94,00,000/-

Grants Utilized: Rs. 90,54,00,000/-

Other Significant Information

Facilities at DBC includes i4 Center (Inspire Inter-Disciplinary Ideas for Innovations), under the aegis of DBT Star College Scheme; 2 DSE courses- Nanoscience and Nanomaterials; mushroom cultivation center in collaboration with NSDC; hydroponic facility; creation of new Science Block; accessible Campus for Differently Abled Individuals; installation of rooftop solar PV system (72.36 KW), LED lights, PNG in laboratories.

DR. BHIM RAO AMBEDKAR COLLEGE

Brief History of the college

Dr. Bhim Rao Ambedkar College (BRAC) was established on February 8, 1991, in honor of the birth centenary of Bharat Ratna Baba Saheb Dr. Bhim Rao Ambedkar. As a constituent co-educational college of the University of Delhi, BRAC is fully funded by the Delhi Government and has consistently progressed in both academic and extracurricular domains. Celebrating its Silver Jubilee in 2016, the college marked 25 years of excellence with numerous academic events, workshops, and conferences.

BRAC offers a unique combination of academic and professional courses, including notable programs such as B.Com, B.Com (Hons.), B.A. (Hons.) in Geography, History, and Applied Psychology. It pioneered professional courses like B.A. (Hons.) Hindi Journalism and Mass Communication, Social Work, and Business Economics. The college also provides specialized courses in Human Resource Management, Office Management and Secretarial Practice, and Functional Hindi for B.A. (Programme) students. Additionally, BRAC serves as a WUS Health Centre, a Regional-cum-Study Centre for the School of Open Learning (SOL), and a teaching centre for the Non-Collegiate Women Education Board (NCWEB). It hosts a Post Graduate Diploma in Youth Development (PGDYD) under the Rajiv Gandhi National Institute of Youth Development.

Honours/Distinctions

Faculty

Prof. Nishi Sharma received the 'Silver Medal' for 'Best Business Academics of the Year 2023' at a conference organized by the Indian Commerce Association of India from December 13-15, 2023.

Dr. Jitendra Kumar Nagar was honored with the "Kaka Kalelkar National Award 2023" on December 9, 2023, by the Gandhi Hindustani Sahitya Sabha, Delhi.

Prof. Atul Pratap Singh was awarded the 'Outstanding Social Scientist Award' by the Ananya Institute for Development Research and Social Action, Lucknow, during its three-day Regional Workshop on 'Women Empowerment and Transformation in India in the Context of Raja Ram Mohan Roy's Reforms.' This

workshop, held from May 20-22, 2023, was conducted under the auspices of the Ministry of Culture, Government of India, in collaboration with the International Institute for Special Education, Lucknow.

Publications

Scopus Indexed Journals

Mukhter, I., & Chowdhary, R. (2023). What rural women say about their role in household waste management in Kashmir? A case-series approach. *Local Environment*, 1-6.

Rani, S., Lal, S., Kumar, S., Kumar, P., Nagar, J. K., & Kennedy, J. F. (2024). Utilization of marine and agro-waste materials as an economical and active food packaging: Antimicrobial, mechanical and biodegradation studies of O-Carboxymethyl chitosan/pectin/neem composite films. *International Journal of Biological Macromolecules*, 254, 128038.

Shahani, R., & Paliwal, R. (2023). An empirical investigation of the impact of spillover dynamics from crude to NSE Nifty Index during and prior to the COVID-19 pandemic period. *SN Business & Economics*, 3(8), 138.

UGC Care-list Indexed Journals

Shahani, R., & Paliwal, R. (2023). Do Financial Assets Move in Tandem During High Impact Period of a Crisis: Evidence from Global Financial Crisis and COVID-19 Pandemic Periods. *Jindal Journal of Business Research*, 12(2), 119-142.

Tyagi, P., & Chowdhary, R. (2023). Psychiatric Social Worker Approach to Identifying and Treating Depression among Teenagers. *International Journal of Indian Psychology*, 11(3).

Research Projects

Indian Council of Social Science Research (ICSSR), "Health Benefits of Millets in Routine Diet: A Study for Assessing the Awareness and Consumption of Millets Among Youth in Delhi NCR." Sanctioned amount of Rs. 10 lakhs. PI: Prof. Tushti Bhardwaj.

Seminars Organized

The college hosted the 4th World Environment Summit 2023 from November 4-6 at Galgotias University, Greater Noida, in collaboration with the Environment and Social Development Association (ESDA) Delhi, CSIR-National Environmental Engineering Research Institute (NEERI), Villa College Maldives, Tribhuvan University Nepal, and the Zoological Society of Bangladesh.

On December 6, 2023, the college organized the Babasaheb Ambedkar Memorial Lecture on his 68th Mahaparinirvan Diwas, focusing on "Babasaheb Dr. Ambedkar: His Life and Mission."

Seminar/Conference Presentations (National / International)

National

Dhananjay Kumar presented a paper titled "Digital Media in Hindi Language: Various Forms" at the National Conference organized by Indira Gandhi National Open University (IGNOU) on September 12, 2023.

Nishi Sharma presented a research paper entitled "How Does Performance of Green Stocks Compare with Traditional Stocks on Indian Equity Market: An Empirical Investigation" on December 14, 2023, at a conference held by the Indian Commerce Association in association with O.P. Jindal University in Sonapat.

Rakesh Sahani

Presented a paper titled "Is Afghanistan Joining the Global Players of Environment Degradation through Growth: Evidence from EKC and Dynamic Cointegration Linkages" at the International Conference on Growth, Resilience, and Sustainability in an Uncertain World, April 11-12, organized by the Department of Economics, Central University of Rajasthan. (Rakesh Sahani & Izharulhaq Safi, BBE student).

Presented a paper titled "Assessing the Environmental Sustainability Corridor for BRICS Nations by Integrating Three SDGs, 'Biocapacity' and 'Ecological Footprint'" at the SEEDS International Conference 2023, organized by Jaipuria Management Institute in collaboration with University of Middlesex, Dubai. (BBE Students Involved: Rakesh Sahani and Aishwarya 2021-24).

Rajbala Gautam presented a research paper titled "Does Dynamic Linkages Amongst Base Metals Provide Evidence of Being an Alternate Asset Class in Indian Context" at the 15th HSB Annual Conference, Feb 9-10, organized by Haryana School of Business, Hisar. (BBE Students Involved: Gracy Mathur, 2020-23).

Jitendra Kumar Nagar presented a paper on "Yamuna River Pollution" at the 4th World Environment Summit 2023, organized by Environment and Social Development Association (ESDA) Delhi, Dr. Bhim Rao Ambedkar College, University of Delhi, CSIR-National Environmental Engineering Research Institute (NEERI), Villa College Maldives, Tribhuvan University Nepal, and Zoological Society of Bangladesh, from November 4-6, 2023, at Galgotias University, Greater Noida.

Kumar Satyam presented a paper titled "नई राष्ट्रीय शिक्षा नीति: भारतीय शिक्षा एवं संस्कृति को जोड़ने की दिशा में एक कदम" in the 'Bharat Manthan 2023 - Role of Present India in the Global Scenario' organized by Indraprastha Study Center and Non-Collegiate Women's Education Board, Delhi University, and Sanskrit and Ancient Studies Institute, Jawaharlal Nehru University, Delhi, and Chaudhary Charan Singh University, Meerut.

National/International MoUs Signed

MoU with Kings College, London Cicely Saunders Institute

MoU with Idea Saksham NGO to promote job related opportunities and skill-based training to Divyang students in the college

MoU has been signed with the Indian Pollution Control Association (IPCA) for BIO Waste Management in the campus.

Placement Details

Total 8 students were placed during the year 2022-23 along with 11 being enrolled in various internships. Under the placement committee's guidance, 22 students have secured placements and internships, with the highest salary package being 7 LPA.

Number of Companies visited for campus recruitment

Around 35 to 40 companies visited the campus during the year 2022-23 such as Aditya Birla, Sunlife Insurance, Appsiera Solutions, Bonami Software, British Telecom among others.

Extension and Outreach Activities

A Blood Donation Camp held on October 31, 2023, saw participation from over 70 students. Furthermore, nine out of 13 students with disabilities (PwD) were awarded scholarships by the Rotary Club through the Equal Opportunity Cell.

Library Development

The college library has made significant strides in enhancing its resources and services to cater to the academic and research needs of its community. As of January 24, 2024, the library boasts a collection of 46,959 books, with 1,385 books purchased between February 4, 2023, and January 24, 2024. In addition to books, the library offers access to 54 periodicals, including 17 in English and 14 in Hindi, along with newspapers in both languages and Urdu. The library underwent a digital transformation by migrating from Libsys to KOHA software in December 2022, streamlining its operations and improving user experience.

A Plagiarism Check facility has been implemented to uphold academic integrity, enabling students and faculty to verify the authenticity of their work. The library provides Online Public Access Catalogue (OPAC) access, allowing registered users to manage their library accounts and explore the extensive collection remotely. With seating capacity for 100 readers, the library offers conducive spaces for study and research. Dedicated areas are designated for the consultation of newspapers and magazines, facilitating current affairs research. The Reference Section houses a special collection on Dr. Ambedkar, Gandhi, Nehru, and other eminent personalities, accessible to all during library hours. These developments underscore the library's commitment to supporting scholarly pursuits and fostering an enriching learning environment.

Faculty Strength

Permanent: 34; Temporary: 34; Ad Hoc: 32; Guest: 42

Financial Allocation and Utilization

Grants allocated: Rs.37,07,17,042.00/-

Grants utilized: Rs.32,76,90,847.00/-

DURGABAI DESHMUKH COLLEGE OF SPECIAL EDUCATION (VISUAL IMPAIRMENT)

Honours/Distinctions

Students

Mr. Akashdeep Bhandari of B.Ed Special Education -II year secured first position in the college.

Ms. Bhawna Joshi of B.Ed Special Education -II year secured second position in the college.

Ms. Chitra of B.Ed Special Education -II year secured third position in the college.

Conferences Organized

Organized “Importance of Teaching Learning Materials (TLM) and uses” on August 12, 2023.

Organized “. Role of Special Educators in preparation of Teaching Learning Materials (TLM)” on August 13, 2023.

Organized “National Curriculum Framework for School Education, 2023” on January 12-13, 2024.

Seminar/Conference Presentations (National / International)

National

Dr. Swati Sanyal presented a paper titled “Guidance and Counseling in School’ in the Continuing Rehabilitation Education (CRE) approved by Rehabilitation Council of India (RCI)” at the National Curriculum Framework for School Education, 2023 by Durgabai Deshmukh College of Special Education, New Delhi, on January 12-13, 2024.

Dr. Sudeep Kumar Dubey: delivered lectures on Functional Assessment of Vision in the CRE organized by Jamai Millia Islamia, New Delhi, on 23rd November 2023.

Dr. Sudeep Kumar Dubey delivered lectures on braille learning in the seminar organized by Regional Institute of Cooperative Management, Chandigarh under SSA, from December 6-7, 2023.

Dr. Sudeep Kumar Dubey delivered a lecture as Resource Person at Rajasthan Teachers training at Pratagarh organized by Sight Savers, during May 9-11, 2023.

Mr. Narendra Kumar Jha presented a paper titled “Introduction of Special Needs Children and Gifted Children” at Department of Education, Govt. of NCT, Delhi, on August 17, 2023.

Mr. Narendra Kumar Jha presented a paper titled “Electronic Devices, Tactile and Auditory Maps-Description and Uses” in the CRE seminar organized by Ashtavakra Institute of Rehabilitation Sciences and Research, New Delhi, on October 18, 2023.

Mr. Narendra Kumar Jha presented a paper titled “Pedagogy Strategies and Approaches in Assessment (Social Sciences)” in the Continuing Rehabilitation Education (CRE) approved by Rehabilitation Council of India (RCI) organized by Durgabai Deshmukh College of Special Education, New Delhi, on January 12, 2024.

Mr. Virender Kumar Tyagi presented papers titled “Preparing TLM in Social Sciences” and “Preparing Mobility Map” in CRE organised by Durgabai Deshmukh College of Special Education, Blind Relief Association, New Delhi, from January 12-13, 2024.

Mr. Virender Kumar Tyagi presented paper titled “Vocational Education and NEP 2020” in CRE organised by Durgabai Deshmukh College of Special Education, Blind Relief Association, New Delhi, on January 12, 2024.

Other Inter-Institutional Collaboration

Jamia Millia Islamia, RCI, Department of Education, Lady Irwin College, IGNOU

Student under Exchange Program (Inbound/Outbound)

42 teacher trainees of I and II year of B.Ed Special Edn. (ID) course of Lady Irwin College visited our college on January 4, 2024. The trainees of Lady Irwin College learnt English and Hindi Braille from our trainees and faculty in Gandhi Hall in college campus.

Placement Details (Number and percentage of students placed)

A total of 12 students were placed during the year 2023-24.

Extension and Outreach Activities

Udyan Utsav 2024 at Rashtrapati Bhavan: College participated in Purple Fest on February 26, 2024 at Rashtrapati Bhavan under banner of Blind Relief Association. Mr. Narendra Kumar Jha and two teacher trainees Mr. Ramvaran Patel and Mr. Aditya Kumar displayed and showed education materials/ TLM papered by teacher trainees to visitors during purple fest.

Amrit Udyan: All teacher trainees of both years visited Amrit Udyan at Rashtrapati Bhavan on February 26, 2024. The group was led by the Dr. Swati Sanyal, and Mr. Virendra Kumar Tyagi.

Educational Excursion local: Teacher trainees of first year visited Humayun Tomb, Nizamuddin on February 29, 2024. Mr. Narendra Kumar Jha organised and led the teacher trainees during their visit.

Library Development

The Learning Resource Centre (Library) of college has rich information resources which include Print Books, Braille Books, Talking Books, Tactile Books, Conference Proceedings/ Research Bulletins, back volumes of journals, CDs/DVDs, E Resources on special education, education particularly on visual impairment area. The LRC offers WebOPAC facility which is in Excel format and is in an accessible manner along with separate catalogue of 134 Number of talking Books (DAISY and MP3 format), 396 Number of Braille Books and 5 Number of Tactile Books for the students with visual impairment. All these can be accessed through its website www.lrcddcse.wordpress.com. LRC also offers thousand numbers of e Resources (E- Books and E- Journals) through NLIST programme offered by INFLIBNET centre. The total Number of Books in the library (Print + Braille) are 4650. The total Number of Titles (Print + Braille) are 2360. The number of print journals on special education as well as education are 15.

Faculty Strength

Senior Professor/Professor/Director: 02

Associate Professor: Nil

Assistant Professor: 01

Ad-hoc faculty: Nil

Guest: 04

DYAL SINGH COLLEGE

Major Activities and Achievements

The college celebrated the National Science Day by organizing a two-day Science Fair (February 28-29, 2024) on “Cutting Edge Science & Technology for Sustainable Future”. The fair was inaugurated by Padma Shree awardee Prof. V. S. Chauhan. The students enhanced their knowledge by the informative and interesting talk of Prof. V. S. Chauhan and other eminent scientists. The Science Fair also gave opportunity to students at various colleges to explore and show their innovation in the form of Projects, Posters, Models, Reels etc. A Health Mela and a Book Fair was also organized during the science fair. Inter-college Boxing Championship was organized (December 5-7, 2023) for Men and Women Category. In the Men Category our college won 9 Gold Medals, 1 Silver Medal, 3 Bronze Medals and in Women Category students won 3 Silver Medals. The college was ranked 48th in the college category by NIRF. Appointments and promotions of faculty members were done. A one-week Faculty Development Program on “Recent Trends in Mathematical Sciences” was conducted during September 11-16, 2023. The Indian Institute of Ecology and Environment, New Delhi, conferred “National Environmental Education and Awareness Award” on World Environment Day. The college also participated in the 20th Foundation Day of Confederation of Indian Universities and received the “Academic Ascendancy Prize for Exemplary College Excellence”.

Honours/Distinctions

Faculty

Prof. Anil Nain Included in the World’s Top 2% Scientists 2023 released on basis of Scopus data of research analysis by Stanford University, USA with Global Rank 249 out of 72,674 researchers in Chemical Engineering Category.

Prof. Anil Nain ranked 21st in University of Delhi in AD Scientific index 2023 rankings of the world based on Google Scholar data of nearly ~1.4 million researchers from all subject areas.

Prof. Ravinder Singh received Fellowship of Indian Institute of Advanced Study, Shimla on the project-Relocating Punjabi literary traditions in its Geo-cultural and civilisational context.

Dr Rajesh Kumar Abhay received Associate-ship at the Indian Institute of Advanced Study, Shimla under the UGC Inter-University Centre for Humanities and Social Sciences.

Prof. Anil Nain is a member in the Editorial Advisory Board of Journal of Chemical Thermodynamics, Elsevier Ltd., The Netherlands.

Prof. Anil Nain is Associate Editor in the Organic and Medicinal Chemistry International Journal, Juniper Publishers, USA.

Prof. Minakshi Kar was nominated by UGC as special invitee on the Accounting Standards Board, ICAI.

Students

Armaan Phogat of BA (Prog) II semester won Gold Medal in Inter College Boxing Championship. He also won Gold medal in Youth Delhi State Championship and participated in Youth National Games.

Sohit Dramm of BA (H) English II semester won Gold Medal in Inter College Boxing Championship. He also won Gold Medal in Youth Delhi State Championship. He Participated in Youth National Games.

Shristi Rai BA (Prog) VI semester won gold in 100m Hurdle and won Bronze Medal in Triple Jump in Delhi University Inter College Tournament.

Gaurav Singh BA (Prog) II semester won Silver Medal in High Jump and won Bronze Medal in decathlon event in Delhi University Inter College Tournament.

Aditya Bisht of B. Com (H) II semester won Gold Medal in Inter College Boxing Championship, participated in Northeast Zone Intervarsity and won Gold Medal in Youth Delhi State Championship. Participated in Youth Nationals.

Publications

Scopus indexed journals

Sapra, R., Tailor, R. K., Gupta, R., Bhardwaj, P., & Jaiswal, V. V. (2023). Integrative Framework for the Determinants of Portfolio Stock Returns. *Well Testing*, 32, 72-93.

Research Projects

Prof. Alka Gupta, Council for Scientific and Industrial Research: Development of Nano-emulsified essential oil and Plant Metabolites based formulations and their bio-efficacy against *Spodoptera frugiperda* (Lepidoptera: Noctuidae), ₹ 24.43 lakh.

Prof. Anil Nain, Central Council for Research in Homoeopathy: Physicochemical Studies of Homoeopathic Drug Formulations by using Volumetric, Acoustic, Viscometric, Optical and Conductometric Measurements, ₹ 44.76 lakh.

Aruna Chhikara, CONCOR India Ltd.: Development of Biodegradable Nanogels for Targeted Anticancer Therapy and Preclinical Evaluation, ₹ 37.43 lakh.

Prof. Arun Pal Singh, SERB, DST: Extrapolation in some Lebesgue type space, ₹ 6.6 lakh.

Minakshi Kar, ICSSR: Atmanirbhar Orissa and Jharkhand, ₹ 7.00 lakh.

Patents Filed/Granted

National Patent 1 and biologically active anti-cancer compound and derivative thereof, and green synthesis thereof (Patent Application Number – 202411007373).

National Patent 2 and Deep learning based English Translation System with Improved accuracy (Patent Application Number- 202311049544).

Seminars Organized

Seminar titled, “Sustainable Development” by Prof. Nitya Nand, Director, Council of Social Development, New Delhi, NRC-ICSSR, Goals, on February 27, 2024.

Seminar titled, “Dynamics of Law” by Mr. Ashish George, Lawyer, Supreme Court of India, Department of Political Science, on March 22, 2024.

Seminar titled, “Consumer Awareness” by Adv Gaurav Mishra, Advocate, Supreme Court of India, on March 14, 2024.

Seminar titled, “Geography of Polyvocality” by Prof. Dhananjay Singh, Member secretary, ICSSR, ICSSR-Northern Region centre, on April 9, 2023.

Seminar titled, “Recent Trends in Life Science Entrepreneurship in the Era of G20” by Prof. Dinabandhu Sahoo, Senior Professor, Department of botany, University of Delhi, on April 5, 2023.

Seminar/Conference Presentations (National / International)

International

Alka Gupta and Sanjiv Mullick presented a paper titled” Repellency and Insecticidal Activity of nano-emulsified formulation of Eucalyptus citriodora essential oil against Spodoptera litura (Fab.) (Lepidoptera: Noctuidae)” at 74th International Symposium on Crop Protection (ISCP), May 23, 2023, Ghent, Belgium.

Ravinder Singh presented a paper titled “Sarbat da Bhala: Bharti ate Pacchami Jeevan-Drishti da Sandarbh” in 8th World Punjabi Conference-2023 ‘World Peace and Humanity’, Snelgrove Community Centre, Brampton, Canada, during June16-18, 2023.

Arun Pal Singh delivered a talk titled “Rubio de Francia Type Extrapolation” at the Tenth Congress of Romanian Mathematicians, University of Pitești, Romania held from June 30, 2023 to July 5, 2023.

Rajesh Kumar Abhay presented a paper titled “Analysis of substandard living households in census towns of Trans-Yamuna Delhi”, at the 45th Indian Geography Congress, International Conference of NAGI on “Environment, Development and Sustainability: The Exigency of Geography for a Resilient Future”, organized by Department of Geography, Savitribai Phule Pune University, Pune, December 14-16, 2023.

Ayesha Irfan presented a paper titled “Bernard Shaw’s intellectual Comedies and Shavian Wit and Humour” at the IACLALS International Conference, February 15-17, 2024, BITS PILLANI.

Rajiv Kumar presented a paper entitled “On Construction of Linear Codes using Quasigroups” in the International Conference on Advances in Pure & Applied Mathematics (ICAPAM), organized by Shyam Lal College, University of Delhi, February 8-10, 2024.

Neha Sagar presented a paper titled “Role of the performance management system and employee performance” at the 20th AIMS International Conference on Management organized at the IIM, Kozhikode, on January 1, 2023.

National

Ritu Rai presented a poster “Error-prone non-homologous end-joining and hyperrecombination activity in cell-free extracts of breast carcinoma”, International Conference on Structural Biology & Drug Discovery, University School of Biotechnology, Gautam Buddha University, Greater Noida, on October 11-12, 2023.

Neetu Bhattacharya delivered a talk at International Conference on "Crossroads of Chemistry, Biology and Atmospheric Environment: A Modern Perspective" organized by Department of Chemistry, University of Delhi in collaboration with Indian Science Congress Association, The Indian Society of Analytical Scientists, Indian Association of Solid-State Chemists and Allied Scientists and Society for Promotion of Science and Education, on February 26, 2024.

Shweta Rani presented a paper titled “Role of Non-Timber Forest Products in Promoting Rural Livelihoods: A way to Rural Sustainability” at Two-Days ICSSR sponsored National Seminar on ‘Non-Timber Forest

Products, Tribal Livelihood and Sustainable Development of Forest Resources’, organized by Department of Geography, Kirori Mal College, University of Delhi, October 13, 2023.

National/International MoUs/MoAs Signed

MoU signed with National Institute of Immunology, JNU, New Delhi.

MoU signed with Shriram Institute of Industrial Research, New Delhi

MoU signed with World Wildlife Fund India

Other Inter-Institutional Collaboration

Shriram Institute of Industrial Research

CCRH, Ministry of Ayush

Ministry of Jal Shakti

Students under Exchange Program (Inbound/Outbound)

BLISc Course (IGNOU) - 04 Students

BLISc Course (SOL, DU) - 03 Students

Placement Details

Number of students placed: 148

Number of Companies visited for campus recruitment: 73

Extension and Outreach Activities

Dyal Singh College has units like National Service Scheme National Cadets Cops, Environment Club, Disaster Management Committee, Enactus, Vikriya: The Gender Champions, Women Advisory Committee, DSC Sustainability Forum and various departmental societies, which organise workshops, seminars and other student related activities throughout the year for the holistic development of students. The initiative reflects the compassion, empathy, sensitivity and responsibility of the students towards the society and environment. The students and faculty members participated in celebration of Independence Day, Republic Day, International Yoga Day, Plantation Drive, Blood donation camp, Swachhata Abhiyan, Cloth donation drive, Van Mahotsav, Cleanliness drive, etc. The Swachh Amrit Mahotsav initiative, aimed at realizing 'garbage-free cities', saw active participation from the students of NSS DSC unit in the cleanliness drive at Buddha Jayanthi Park. An “Angdaan Mahotsav” was organized as a part of “Azadi ka Amrit Mahotsav”, which highlighted the importance of organ donation. On the eve of Gandhi Jayanti, an impactful cleanliness drive under "Ek Tareek Ek Ghanta" was organised. 'Freedom Run 4.0' was organised as a part of Fit India Movement in the grounds of the college. The NSS DSC chapter organized a bird feeding event in the college premises during the scorching summer season, aiming to provide nourishment and care for the bird population. The student volunteers in association with various NGOs participated in cloth donation drives, distribution of stationaries, visit to slums, etc. A Health Mela was organized in the college from February 28-29, 2024, with free check-up facilities for dental, eye, hearing, heart, bone

density, blood pressure, sugar etc. The DSC Sustainability forum organises student talks and activities to create awareness with respect to waste management, green initiatives, energy consumption and happiness.

Library Development

Library Development

Print Collection

The library has spent ₹ 810255.00 on the purchase of books. ₹ 142542.00 on subscriptions to Periodicals/Magazines/ Newspapers for the year 2023-2024

The number of books added in 2023-2024:

No. of Books - 1418

Gifted Books - 27

Total no. of Books - 1445

E-Resources:

In addition, the college library also provides access to E-resources through:

The library has renewed its membership of the Nlist Programme for the year 2023-24 to access 6000+Journals and 1,99,500+ eBooks; The college library provides access to e-resources subscribed by the Delhi University Library System through the Delhi University Network System; User Service, Orientation, Awareness, and Book Exhibition.

User Services:

The library is providing ICT-based services to Visually Impaired Student/Faculty members; The library is providing online User IDs and passwords to students and faculty members for having access N-list database; The library coordinates with the Delhi University Library System and to provides remote access to DULS e-resources to faculty members; The library is providing plagiarism checks Services to faculty members on DrillBit Software for research publications.

User Orientation and Awareness Program:

Book Exhibition organized on October 16, 2023 through New Age International Publishers; Book Exhibition Organized on “Gandhi Jayanti” through display of available Books on Mahatma Gandhi in the library from November 30, 2022, to October 7, 2023; Book Stall Organized by the library during “Science Fair 2024” on February 28, 2024; A Book Fair Organized by the library in the college on February 29, 2024; Infrastructure and ICT Development

The library has changed to a Barcode scanner system in the place of Physical Visitor Register System. Computer and scanner installed at the library entrance. Students enter the library by scanning their Barcoded Identity Card.

Faculty Strength

Senior Professor/Professor/Director: 23

Associate Professor: 75

Assistant Professor: 143

Ad-hoc.: 7

Guest: 33

Financial Allocation and Utilization

Grants allocated: ₹119.27 crore

Grants utilized: ₹ 119.27 crore

DYAL SINGH EVENING COLLEGE

Major Activities and Achievements

Under the leadership of Principal Prof. Bhawna Pandey since July 2023, our college has witnessed notable academic advancements. Over 100 faculty members have dedicated themselves to academic enhancement, publishing 50+ articles in prestigious international and national journals. Numerous events, both physical and virtual, totaling more than 50, such as educational visits, seminars, and webinars, have been orchestrated by various committees and societies. Students have garnered numerous awards and distinctions across a wide array of activities. Noteworthy among our flagship events, Viksit Bharat@ 2047 has overseen the execution of Academic Vimarsh, Mridu Bhav, and Bharatiya Asmita Ke Pratik Ram. Moreover, student participation in the World Youth Festival 2024 in Sochi, Russia, and female faculty participation in the Nari Shakti Conclave have enriched their educational journey.

Publications

Scopus indexed journals

KP, J. M., Singh, J. K., & Singh, S. K. (2023). Effectiveness and Sustainability in Modern E-tailing Business through Application of Artificial Intelligence. *Academy of Marketing Studies Journal*, 27(3).

Bhatnagar, A. (2023). HUMAN BODY, EXISTENCE AND DESIGN. An Insight into Yellapragada SubbaRow's Philosophy. *Review of International American Studies*, 16(2), 119-139.

Singh, J., Alhag, S. K., Al-Shahari, E. A., Al-Shuraym, L. A., Alsudays, I. M., Ahmed, M. T., ... & Kumar, V. (2024). An experimental and prediction modeling study on water lettuce (*Pistia stratiotes* L.) assisted heavy metals removal from glass industry effluent. *Environmental Science and Pollution Research*, 31(19), 28090-28104.

Jigyasu, D. K., Kumar, A., Shabnam, A. A., Begum, R., Singh, S., Malyan, S. K., ... & Vijayakumari, K. M. (2023). Air pollution tolerance index of *Persea bombycina*: Primary food plant of endemic muga silkworm (*Antheraea assamensis*). *Heliyon*, 9(11).

Nguyen, N. T. H., & Tuan, L. T. (2022). Creating reasonable workload to enhance public employee job satisfaction: The role of supervisor support, co-worker support, and tangible job resources. *Public Performance & Management Review*, 45(1), 131-162.

Sapra, R., Tailor, R. K., Gupta, R., Bhardwaj, P., & Jaiswal, V. V. (2023). Integrative Framework for the Determinants of Portfolio Stock Returns. *Well Testing*, 32, 72-93.

UGC Care-list indexed Journals

Singh, J. N., & Joshi, T. (2023). Sh. ML Kachroo: A legend of school of library science, DLA. Library Herald, 61(3), 1-8.

Shaikh, E. (2023). Exploring the Deliberative Ideal through the lens of Gandhian Thought.

Singh, J., Alhag, S. K., Al-Shahari, E. A., Al-Shuraym, L. A., Alsudays, I. M., Ahmed, M.

T., ... & Kumar, V. (2024). An experimental and prediction modeling study on water lettuce (*Pistia stratiotes* L.) assisted heavy metals removal from glass industry effluent. Environmental Science and Pollution Research, 31(19), 28090-28104.

Web of Science indexed Journals

Shaikh, E. (2023). Understanding the Narrative Style of Frederick Drew: The Description of Ladakh. History and Sociology of South Asia, 17(2), 137-148.

Singh, S., Malyan, S. K., Maithani, C., Kashyap, S., Tyagi, V. K., Singh, R., ... & Pandey, R. P. (2023). Microplastics in landfill leachate: occurrence, health concerns, and removal strategies. Journal of environmental management, 342, 118220.

Kumar, A., Ponmani, S., Sharma, G. K., Sangavi, P., Chaturvedi, A. K., Singh, A., ... & Gull, A. (2023). Plummeting toxic contaminants from water through phycoremediation: Mechanism, influencing factors and future outlook to enhance the capacity of living and non-living algae. Environmental Research, 117381.

Singh, S., Rawat, M., Malyan, S. K., Singh, R., Tyagi, V. K., Singh, K., ... & Pandey, R. P. (2023). Global distribution of pesticides in freshwater resources and their remediation approaches. Environmental Research, 225, 115605.

Research Projects

Prof. Bhawna Pandey, ICSSR, Sowing Seeds of Empowerment among Tribal Women as Millet Producers and 'Millet Entrepreneurs': A Case Study of Odisha, ₹ 17.00 lakh.

Dr. Sandeep Kumar Malyan, ICSSR, Evaluation Of PMKVY: A Multi-Site Study of Select Districts of Haryana, Western Uttar Pradesh, and Uttarakhand, ₹ 13.00 lakh.

Seminars Organized

Seminar titled "Introduction to Capital Markets and Depository Services" by Mr. Harbinder Singh Sokhi, Manager, CDSL on October 10, 2023.

Seminar titled "Fostering Self Care Practices among Working Women _An Ayurveda Perspective" by Dr. Anagha Ranade, Research officer, (Ayurveda), Central Council for Research in Ayurvedic Science on November 8, 2023.

Seminar titled "Cyber Security and Applications" by Dr. Manju Khatri, Assistant Professor, JNU, on December 1, 2023.

Seminar titled "Tamil Literature & It's Significance Mesmarsing Characters in Ancient Thamizh Literature" by Prof. Pushpa kumar, Shri. S. Sreenivasan, Professor, Faculty of Law (DU), Delhi State Coordinator (Non-Hindi Language), on December 12, 2023.

Seminar titled “The crucial role of Innovation in Nurturing Start-Ups” by Dr. Jai Kamal, Assistant Professor, IIM, Jammu, on March 2, 2024.

Seminar/Conference Presentations (National / International)

International

Aruna Sharma presented a paper titled "Hauz Khas Village (Delhi): A Peek into Affective and Cognitive Image through Place Marketing Perspective" at the International Conference on Samriddh Bharat, A Journey towards the third largest economy, organized by Department of Commerce, Shaheed Bhagat Singh Evening College, University of Delhi on February 22, 2024. She also received the Best Research Paper Award.

Jagbir Singh and Mr. Shashi Shekhar presented a paper titled “India – Africa Relations: Exploring New Pathways and Building the Future Together”, at the International Conference organized by the Department of African Studies, University of Delhi, Delhi, from March 6-7, 2024.

Neeru presented a paper titled “Hindi aur Rozgar srijan ki sambhavna” in two days International Seminar on “Vishwa Patal par Hindi bhasha aur Sahitya” organized by Kanhaiyalal Maniklal Munshi Hindi tatha Bhasha Vigyan Vidyapeeth, Dr. Bhimrao Ambedkar Vishwavidyalaya, Agra, from January 16-17, 2024.

National

Brati Biswas presented a paper titled “Socio-Cultural Perspectives of Disability and Gender in Indian Literature”, and chaired a session in the National Seminar “Socio-Cultural Perspective and Importance in Indian Literature” organized by Bhartiya Bhasha Samite, Dyal Singh College, University of Delhi during 2023-24.

Ekta Shaikh presented a paper titled "The Idea of Deliberation in Indian Context: An Examination" at a two-day national seminar on Tracing Democratic Ethos in Indic Civilization organized by organized by Hansraj College, University of Delhi in collaboration with Indian Council of Social Science Research-Northern Regional Centre, New Delhi, on November 2-3, 2023.

Promila Bhardwaj, Mr. Vivek Jaiswal, and Mr. Arun Kumar presented a papers titled “One Earth. One Family. One Future” at the 74th All India Commerce Conference of the Indian Commerce Association hosted by the Department of Commerce, Faculty of Commerce & Business, Delhi School of Economics, University of Delhi in association with Knowledge Partner O. P. Jindal Global University, Sonipat from December 13-15, 2023.

Pritam Kumar Gupta presented a paper titled “Last Days of Tomars and Chauhans: Delhi during the Age of Power, Protest and Conflict in Twelfth Century” at Tomar evam Chauhan Rajvanshon ke Antargat Gauravshali Delhi” organized by I.C.H.R and P.G.D.A.V College, University of Delhi, on February 22, 2023.

Vinay Barkane participated in the All India Political Science Conference and International Seminar on Vasudev Kutumbakam: One Earth, One Family, One Future at Mahatma Gandhi Antrrashtriya Vishwavidyalaya, Wardha, Maharashtra on September 10, 2023.

National/International MoUs Signed

MoU Signed with Miranda House; Date: November 7, 2023; A landmark achievement fostering academic collaboration and excellence, demonstrating Principal Madam's commitment to forging strategic partnerships for the benefit of both institutions.

Other Inter-Institutional Collaboration

"Achiever's Meet- A Panel Discussion" on June 10, 23 from 4:30 PM Onwards in association with Career Launcher, a renowned educational institute

An enriching visit to the 17th Indian Cooperative Congress in collaboration with the National Cooperative Union of India on the topic, "Amrit Kaal-Prosperity through Cooperation for a Vibrant India" for the students of our college on July 2, 2023 from 10 AM to 1 PM. The venue was International Exhibition-cum-Convention Centre (IECC), Pragati Maidan, New Delhi- 11000.

A seminar on the topic, "Introduction to Capital Markets and Depository Services." By the COMHUB society, the seminar took place on the October 10, 2023, in the seminar hall in collaboration with CDSL. Resource Person for this program were Ms. Veena Yadav, assistant manager at CDSL Mr. Harbinder Singh Sokhi, Manager, CDSL.

The "Pink Health Awareness Campaign" organized by Internal Quality Assessment Cell (IQAC), in collaboration with BORBAGH Foundation, on October 18, 2023, was a significant event focused on promoting women's wellbeing and breast cancer awareness. The event commenced in the conference room, with the gracious presence of the President of BORBAGH Foundation.

Besides these, several more events were conducted by the COMHUB and ICC in association with BSE an educational visit to BSE on February 15, 2024

Placement Details

Number of students placed: 187

Number of Companies visited for campus recruitment: 419

Extension and Outreach Activities

The NSS unit organized a heartening clothes distribution drive in the slum areas of Lodhi Road, New Delhi, catering to all age groups.

Mera Pehla Vote-Desh Ke Liye was an event organized from March 9-13, 2024 on the college premises to encourage youth participation in participation in elections & foster civic responsibility.

Comhub, the Commerce Society organized the 9th edition of Sharing Warmth on the auspicious occasion of the 161st birth anniversary of Swami Vivekananda, a spiritual leader and a social reformer. The program took place from January 10-15, 2024.

Ek Tarikh Ek Ghanta ~ Cleanliness Drive event was organized on October 1, 2023, at Dyal Singh Evening College Campus and JNN Bus stand premise. The event was organized to promote hygiene, community pride, environmental conservation, and public health awareness.

Letter of Hope was organized on October 22, 2023, at Lodhi Garden, New Delhi with the objective to instill hope & dreams among the underprivileged students as well as to spread happiness among them.

Library Development

Total 1360 books were added to already enriched library.

Faculty Strength

Senior Professor/Professor/Director: 8

Associate Professor: 11

Assistant Professor: 78

Ad-hoc.: 1

Guest: 31

Financial Allocation and Utilization

Grants allocated: ₹ 41.83 crore

Grants utilized: ₹ 41.47 crore

FLORENCE NIGHTINGALE COLLEGE OF NURSING

Brief History of the College

Florence Nightingale College of Nursing (under GTBH) was established in 2019 providing B.Sc. Nursing course, which is affiliated to Indian Nursing Council, Delhi Nursing Council and University of Delhi. Before that it was Florence Nightingale School of Nursing (under GTBH) was established in 1994 providing General Nursing & Midwifery Diploma Course (GNM).

The basic aim of B.Sc. Nursing degree program is to prepare nurses with standardized educational training program in nursing to enable them to perform functions of nurse as first level position in all kinds of health care setting. At present the total number of seats are 85.

Major Activities and Achievements

College is under process of starting a study center for Post Basic B.Sc. Nursing Program from IGNOU. College has implemented and monitored academics of all the subjects and later conducted examinations in conformity by the bye-laws of the institute and the affiliating University. College has constantly monitors student's performance and arrange for regular faculty development programs. Various sports and other competitions were conducted throughout the year and distributed medals and prizes to the students.

Honours/Distinctions

Faculty

Dr. Himalyani Sharma (Faculty, FNCON) authored a book on Nursing Research and Statistics as per the new syllabus of Indian Nursing Council.

Extension and Outreach Activities

Exhibition cum Demonstration Project on world oral health Day

Exhibition on HIV & AIDS and to make aware Red Ribbon Club
Participation in Health Camps in the Urban Community.
Participation in Worm infestation and de worming program for School Children
Students and Faculty participated in Intensified Indradhanush Program
Actively participated in the breast feeding week.
Role Play on nutritional diet and nutritional problems.
Exhibition cum skit on MCH care.
Nukkad Natak on Family Planning

Library Development

83 new books were added during the academic year 2023-24.

Faculty Strength

Total number of faculty members is 20.

Financial Allocation and Utilization

- (a) All financial requirements are met by GTB Hospital, Govt. of NCT of Delhi.
- (b) As per requirement

GARGI COLLEGE

Major Activities and Achievements

Gargi college (NAAC accredited A+) is a very sought after premier higher education college that is inclusive and continuously striving to create a better community. In 2023, our college received the Securities and Exchange Bureau (SEBI) Award for Excellence. We run 7 add on courses; and started a 3-month Certificate Course of Fostering Mental Health and Wellbeing under the aegis of Ananda, its Wellbeing Centre that was launched last year to cater to the wellbeing of the entire community. Ms. Dimple Kaushik from the Department of Psychology and Ms. Amisha Narayan from BA Hons Business Economics also bagged the University Gold Medal across the University of Delhi. Our volleyball team also emerged as champions out of 43 participating colleges in the Delhi University tournament, defeating Lady Shri Ram College.

Honours/Distinctions

Faculty

Prof. Sutapa Dutta won the prestigious Fulbright-Nehru Academic and Professional Excellence Fellowship.

Publications

Scopus indexed journals

- Singh, A., Rao, A., Chamola, A., Gahlawat, A., Apurva, S., & Ghosh, C. (2023). Psychological and Physiological Impact of PCOS on the Undergraduate Students of Delhi University. *International Journal of Indian Psychology*, 11(4).
- Chaudhary, S., Chandra, A., Bharadwaj, I., & Kapoor, D. (2023). The Impact of Parental Chronic Illness on Children: Experiences of Young Adults. *International Journal of Indian Psychology*, 11(2).
- Negi, N. P., Prakash, G., Narwal, P., Panwar, R., Kumar, D., Chaudhry, B., & Rustagi, A. (2023). The calcium connection: exploring the intricacies of calcium signaling in plant-microbe interactions. *Frontiers in Plant Science*, 14, 1248648.
- Yadav, M., Panwar, R., Rustagi, A., Chakraborty, A., Roy, A., Singh, I. K., & Singh, A. (2023). Comprehensive and evolutionary analysis of *Spodoptera litura*-inducible Cytochrome P450 monooxygenase gene family in *Glycine max* elucidate their role in defense. *Frontiers in Plant Science*, 14, 1221526.
- Das, S., Agarwal, P., Sahota, L., Meena, Y. K., Singh, M., & Gill, B. S. (2024). Economic and Performance Analysis of Modified Solar Distillation System Coupling Different Integrations Using Carbon Quantum Dot Nanoparticles: Generalized Thermal Model. *Journal of Solar Energy Engineering*, 146(4).
- Singh, G., Sharma, K., Dawer, S., Rana, S., Soni, R., Singh, V. K., & Sinha, R. P. (2023). Horticultural geographical indications of India: botanical aspect. *Vegetos*, 1-15.
- Chaudhary, S., Ali, W., Yadav, M., Singh, G., Gupta, N., Grover, S., ... & Rathore, J. S. (2024). Computational exploration of the genomic assignments, molecular structure, and dynamics of the *ccdABXn* 2 toxin-antitoxin homolog with its bacterial target, the DNA gyrase, in the entomopathogen *Xenorhabdus nematophila*. *Journal of Biomolecular Structure and Dynamics*, 1-15.
- Singh, V. K., Jha, S., Rana, P., Soni, R., Lalnunpuii, R., Singh, P. K., ... & Singh, G. (2024). Cyanobacteria as a Biocatalyst for Sustainable Production of Biofuels and Chemicals. *Energies*, 17(2), 408.
- Kaur, J., Sood, U., Talwar, C., Whitman, W. B., & Lal, R. (2023). Phylogenomics-based reclassifications in the genus *Psychrobacter* including emended descriptions of *Psychrobacter pacificensis*, *Psychrobacter proteolyticus* and *Psychrobacter submarinus*. *Antonie van Leeuwenhoek*, 116(11), 1113-1121.
- Kaur, M., & Srivastava, A. (2023). Negation of a probability distribution: An information theoretic analysis. *Communications in Statistics-Theory and Methods*, 1-16.
- Srivastava, N., Usmani, S. S., Subbarayan, R., Saini, R., & Pandey, P. K. (2023). Hypoxia: syndicating triple negative breast cancer against various therapeutic regimens. *Frontiers in Oncology*, 13, 1199105.
- Shekhar, S., Panwar, R., Prasad, S. C., Kumar, D., & Rustagi, A. (2023). Overexpression of flowering locus D (FLD) in Indian mustard (*Brassica juncea*) enhances tolerance to *Alternaria brassicae* and *Sclerotinia sclerotiorum*. *Plant Cell Reports*, 42(7), 1233-1250.
- Bhattacharjee, G., Gohil, N., Shukla, M., Sharma, S., Mani, I., Pandya, A., ... & Singh, V. (2023). Exploring the potential of microfluidics for next-generation drug delivery systems. *OpenNano*, 12, 100150.

- Kumari, T., Gill, M., Saini, D., & Keisham, M. (2023). Potential of sawdust for the removal of heavy metal ions from soil and aqueous solutions: a case study of Brassica juncea grown in contaminated soil from the Yamuna of Delhi. *Proceedings of the Indian National Science Academy*, 89(3), 740-751.
- Pandey, A., Khan, M. K., Hamurcu, M., Athar, T., Yerlikaya, B. A., Yerlikaya, S., ... & Gezgin, S. (2023). Role of exogenous nitric oxide in protecting plants against abiotic stresses. *Agronomy*, 13(5), 1201.
- Pandey, R. (Ed.). (2023). *Genomic Surveillance and Pandemic Preparedness*. Elsevier.
- Sinha, D., Datta, S., Mishra, R., Agarwal, P., Kumari, T., Adeyemi, S. B., ... & Chen, J. T. (2023). Negative impacts of arsenic on plants and mitigation strategies. *Plants*, 12(9), 1815.
- Gulati, S., Gokhale, S., & Luthra, V. (2024). Optimization of magnetic properties of MnFe₂O₄ by modulating molarity of NaOH as precipitating agent. *International Journal of Materials Research*, 115(4), 266-273.
- Singhvi, N., Talwar, C., Mahanta, U., Kaur, J., Mondal, K., Ahmad, N., ... & Gupta, V. (2023). Comparative genomics and integrated system biology approach unveiled undirected phylogeny patterns, mutational hotspots, functional patterns, and molecule repurposing for monkeypox virus. *Functional & Integrative Genomics*, 23(3), 231.
- Kaur, J., & Kaur, J. (2024). Comparative genomics of seven genomes of genus *Idiomarina* reveals important halo adaptations and genes for stress response. *3 Biotech*, 14(2), 40.
- Warghane, A., Saini, R., Shri, M., Andankar, I., Ghosh, D. K., & Chopade, B. A. (2024). Application of nanoparticles for management of plant viral pathogen: current status and future prospects. *Virology*, 109998.
- Saini, R., Ali, M. I., Pant, M., & Warghane, A. (2024). Current Status of Potential Antiviral Drugs Derived from Plant, Marine, and Microbial Sources. *Anti-Infective Agents*, 22(2), 61-73.
- Singh, A., Rao, A., Chamola, A., Gahlawat, A., Apurva, S., & Ghosh, C. (2023). Psychological and Physiological Impact of PCOS on the Undergraduate Students of Delhi University. *International Journal of Indian Psychology*, 11(4).
- Saini, R., Ali, M. I., Pant, M., & Warghane, A. (2024). Current Status of Potential Antiviral Drugs Derived from Plant, Marine, and Microbial Sources. *Anti-Infective Agents*, 22(2), 61-73.

UGC Care-list indexed Journals

- Idrus, S. Z. S., Cherrier, E., Rosenberger, C., & Schwartzmann, J. J. (2013). A review on authentication methods. *Australian Journal of Basic and Applied Sciences*, 7(5), 95-107.
- Geng, Z., Zhang, X., Han, Y., & Zhang, X. (Eds.). (2023). *Energy Efficiency Analysis and Intelligent Optimization of Process Industry*. Frontiers Media SA.
- Baba, M. M., Krishnan, C., & AI-Harthy, F. N. Emotional Intelligence for Leadership Effectiveness.
- Phogat, P., Ajji, S. K., Verma, S., & Yadav, M. (2023). Assessing the Impact of Online Education on Mood and Feelings Physical Activity, Sleep, and Consequent Internet Addiction during COVID-19 on Adolescents in Delhi-NCR. *Indian Journal of Health & Wellbeing*, 14(4).
- Sinha, D., Datta, S., Mishra, R., Agarwal, P., Kumari, T., Adeyemi, S. B., ... & Chen, J. T. (2023). Negative impacts of arsenic on plants and mitigation strategies. *Plants*, 12(9), 1815.

Dogra, S. (2023). Taste of Choice: Making Sense of Food in the Indian Blogosphere. In *Globalization and Sense-Making Practices* (pp. 103-112). Routledge India.

Thakur, M., Khushboo, Shah, S., Kumari, P., Kumar, M., Vibhuti, R. K., ... & Kumar, D. (2024). Unlocking the Secrets of Rhizosphere Microbes: A New Dimension for Agriculture. *Symbiosis*, 92(3), 305-322.

Arora, A., Belenzon, S., & Sheer, L. (2021). Knowledge spillovers and corporate investment in scientific research. *American Economic Review*, 111(3), 871-898.

Srivastava, A., Mathur, S. K., Mathur, R., & De, P. (2023). Assessment of Possible Economic Alignment Between G20 Nations with Special Focus on India, G7 and G12: A General Equilibrium Analysis. *India Quarterly*, 79(4), 535-551.

Kumar, S. S. A., Bashir, S., Ramesh, K., & Ramesh, S. (2021). New perspectives on graphene/graphene oxide based polymer nanocomposites for corrosion applications: the relevance of the graphene/polymer barrier coatings. *Progress in Organic Coatings*, 154, 106215.

Quamar, M. M., Hameed, S., & Kumaraswamy, P. R. *PERSIAN GULF* 2023.

Khanna, S., Sharma, S., Kumari, M., Tyagi, K., Handique, J., Mishra, L., ... & Mayandi, D. G. (2023). Molecular docking of triterpenoids from Neem with the ecdysone receptor of lepidopteran pests.

Gnaneswari, M. D., Karunakaran, M., Chandrasekar, L. B., Leonora, J. M., & Sundaram, P. S. (2024). Chemically prepared p-type Sn doped ZnO nanoparticles: Synthesis, characterization and its antibacterial properties. *Journal of Crystal Growth*, 627, 127548.

Chandrasekar, L. B., Gnaneswari, M. D., Murugeswari, A., Sundaram, P. S., Ananthan, N., & Karunakaran, M. (2024). Preparation, characterization, and antibacterial activity of Ni, Sn co-doped ZnO nanoparticles: Effect of Sn doping concentration. *Journal of Crystal Growth*, 633, 127660.

Dhingra, G. G., Kumar, R., Sood, U., Hira, P., Kaur, J., & Lal, R. (2023). Microbiome and Human Health: From Dysbiosis to Therapeutic Interventions. In *Role of Microbes in Sustainable Development: Human Health and Diseases* (pp. 295-312). Singapore: Springer Nature Singapore.

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Web of Science indexed Journals

Arendt, H. (1958). What was authority?. *NOMOS: Am. Soc'y Pol. Legal Phil.*, 1, 81.

Dev, A. N. (2023). An Intimate Reading of Eunice de Souza. *Indian Literature*, 67(3 (335), 145-155.

Sinha, D., Datta, S., Mishra, R., Agarwal, P., Kumari, T., Adeyemi, S. B., ... & Chen, J. T. (2023). Negative impacts of arsenic on plants and mitigation strategies. *Plants*, 12(9), 1815.

Pawar, V. A., Tyagi, A., Verma, C., Sharma, K. P., Ansari, S., Mani, I., ... & Kumar, V. (2023). Unlocking therapeutic potential: Integration of drug repurposing and immunotherapy for various disease targeting. *American Journal of Translational Research*, 15(8), 4984.

Sharma, A., Butool, B., Sahu, P., Mishra, R., & Mohanty, A. (2024). In Silico Analysis of Natural Plant-Derived Cyclotides with Antifungal Activity against Pathogenic Fungi. *Protein and Peptide Letters*, 31(3), 247-260.

Mathuria, A., Ahmed, M., & Mani, I. (2023). In silico optimization of DNA codons in genes encoded by various strains of Ebola Virus. *bioRxiv*, 2023-09.

Mittal, M., Kumari, A., Paul, B., Varshney, A., Saini, A., Verma, C., & Mani, I. (2024). Challenges and Opportunities of Gene Therapy in Cancer. *OBM Genetics*, 8(1), 1-501.

AGGARWAL, J., & SHARMA, P. (2023). In Silico Analysis of Tecovirimat A Repurposed Drug Against The Monkeypox Virus, Its Off-target Human Proteins, And Impact On Human Health. *Int J App Pharm*, 15(6), 206-210.

Yadav, M., & Sharma, P. (2023). Current Eco-friendly and Sustainable Methods for Heavy Metals Remediation of Contaminated Soil and Water: Special Emphasis on Use of Genetic Engineering and Nanotechnology. *Pollution*, 9(3), 1028-1048.

Sharma, N., Badhani, B., Vijayanthi, B., Aggarwal, P., & Gupta, A. (2023). Conceptualizing the Essence of Protein–Ligand Interaction at Undergraduate Level: Reinforcing Computational Skills. *Journal of Chemical Education*, 100(7), 2746-2754.

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Dhiman, N.K. (2023). Potential of Vermitechnology as ab eco-friendly approach towards the sustainable management of agro-eco regimes: A Review. *International Journal of Scientific Research in Engineering and Management*, 7(6), 1-11.

Pandey, P., Jha, K., Dwivedi, D., & Dhiman, N. K. (2023). Extracts of *Syzygium aromaticum* (Cloves), *Zingiber officinale* (Ginger), *Curcuma longa* (Turmeric), and *Ocimum sanctum* (Tulsi) fortified with Nanosilver for Antibacterial Therapeutics. *International Journal of Research and Analytical Reviews*, 10(2), 31-39.

Dhiman, N.K. (2023). Green Nanotechnology: A Promising Tool for Sustainable Management of Ecosystem. *International Journal of Research and Analytical Reviews*, 10(3), 472-480.

Research Projects

Dr. Garvita Singh, National Medicinal Plant Board (NMPB), AYUSH Ministry, Ashwagandha (*Withania somnifera*) campaign to increase the availability of its saplings and to disseminate the information on its utility for women's health and empowerment, ₹ 18.90 lakh.

Dr. Alka Michael, Indian Council of Social Science Research (ICSSR), Change and Continuity of the Ahom Rituals and Festivals as Integrated in Bharatiya Sanskriti, ₹ 13.74 lakh.

Dr. Sabeen H. Rizvi, Ministry of Home Affairs, Government of India, Exploring radicalisation and separatist support for Khalistan in Punjab: A mixed method study on radicalization, ₹ 30.28 lakh.

Dr. Sabeen H. Rizvi, Ministry of Home Affairs, Government of India, Exploring the process of radicalisation in incarcerated Islamist Extremists: Inside and outside the prison, ₹ 16.12 lakh.

Patents Filed/Granted

01 (Filled) and Indian Patent; Applied on July 20, 2023. (Application No.- 390729-001)

01(Filled) and Indian Patent; Applied on February 9, 2024; Title: “PCR Primer for Sensitive and Rapid Identification of pathogen Candidatus Liberibacter asiaticus (CLas) based on multicopy nrdB gene”. (Application No.– 202311018671).

01(Filled) and Indian Patent; Applied on February 9, 2024; Title: “Novel Synthetic Selective Biolocators and Identifiers for Multicopy nrdB gene”. (Application No.-. 202311036860)

Conferences Organized

Organised one-day National conference and Sensitization program titled 'Empowering the Golden Years: A Comprehensive Dialogue on Elderly Issues' on March 21, 2023 in collaboration with National Institute of Social Defence and the Ministry of Social Justice and Empowerment, Dr. LalPath Lab, Rekhi Foundation of Happiness.

Organised two-days National Conference on 'NEP2020: Perspectives, Challenges and Way Forward' on November 4, 2023, in collaboration with Indian Council of Social Science Research, New Delhi and National Institute of Educational Planning and Administration.

Organised two-days Virtual International Conference on 'Bioinformatics in Biology: Pre-requisite to post-requisite' on March 3, 2024.

Organised one-day National Conference on 'Financial Literacy: Demystifying Investment Options' on March 15, 2024.

Seminar/Conference Presentations (National / International)

International

A Rustagi presented a paper titled, 'Overexpression of Flowering Locus D (FLD) in Indian Mustard Enhances Tolerance to Alternaria brassicae and Sclerotinia sclerotiorum' in Society for In Vitro Biology (SIVB) International Meeting-2023, Norfolk, VA, USA held between June 10-14, 2023.

P. Phogat presented a paper titled, 'Impact of adolescent academic stress, behavior, and emotional problems on interpersonal relationship' at American Psychological Association Convention, Division 15 - Educational Psychology, Washington, DC, USA held between August 3-5, 2023.

P. Phogat., & V. Verma presented a paper titled, 'Digitalization of dating and its impact on socio-emotional well-being of Indian Gen-Z: A preliminary analysis' at the Thirteenth International Conference on Health, Wellness & Society, UBC Robson Square, Vancouver, Canada held between September 14-15, 2023.

P. Phogat presented a paper titled, 'Teachers' involvement as a predictor of academic stress and behavioral-emotional problems in adolescents. Psychology & the Other Conference American Psychological Association International Meeting, Boston College, Boston University, MA, United States held between October 6-8, 2023.

P. Jain presented a paper titled, 'Identifying the Factors that Enable or Hinder Women Leaders in India' at the International Conference "India@2030", Jesus and Mary College, University of Delhi, India held between January 29-30, 2024.

A. Agrawal, A and N. Singhal presented a paper titled, 'An alternative method for finding an initial basic feasible solution of the fuzzy transportation problem' at the 7th International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA-2024), Jaypee Institute of Information Technology, Noida, India held between February 29- March 2, 2024.

P. Phogat presented a paper titled, 'Perceived involvement of teachers as a predictor of academic stress and behavioral-emotional problems' at American Psychological Association Convention, Division 15 - Educational Psychology, Seattle, WA, United States held between August 8-10, 2024.

National

Dr. R. Mathur presented a paper titled, 'Analyzing the impact of foreign direct investment on the productive capacity index of Africa between 2010 to 2020' at the International Conference on Diversity, Equity, and Inclusion (DEI): Cultures, Practices, and Policies, organized by the University School of Management and Entrepreneurship, Delhi Technological University, Delhi, India held between September 15-16, 2023.

Dr. Vasundhara, V. & Dr. P. Phogat presented a paper titled, 'Examining interactions of depressive cognitions, uncertainty, and impulsivity in emerging adulthood: A cross-sectional analysis' at the 8th International Conference of the Indian Academy of Health Psychology, Goa, India on December 1, 2023.

Dr. R. Saini presented a paper titled, 'Control Mission of Environment and Disaster Management: Role of Govt and Non-Govt. organizations' at the 3rd International Conference (ICCMEDM-2023) at Paliwal PG Coll, Sikohabad, India Universities and Institutions Network for Disaster Risk Reduction (IUIINDRR-NIDM), Indian Academy of Science and Technology Society (IAST), and Ambedkar University, Agra on December 24, 2023.

National/International MoUs Signed

MoU with Google for upgrading two Computers Laboratories, (International)

MoU with Institute of Human Behaviour and Allied Sciences, IHBAS for a Healthier Campus, (National)

MoU with Government Model Degree College Zanskar, Zanskar, Ladakh for Community Outreach, (National)

MoU with Rekhi Foundation of Happiness for Research Impetus and a Happier Campus, (National)

MoU with ICT Academy for creating Growth and Learning opportunities, (National)

MoU with K.R. Mangalam University for Student & Faculty Exchange Initiatives, (National)

Placement Details

Number of students placed: 184

Number of Companies visited for campus recruitment: 124

Library Development

The College library has a total of 77356 number of book and 410 New books were added during the year.

In October of 2023, the library held an orientation program to educate new users on how to effectively navigate and utilize the library's collections and services. Additionally, the library provided internship opportunities to six students from DUSOL and IGNOU, fostering practical learning experiences. Regular motivational talks were also conducted to assist students and faculty in maximizing the use of library resources and services.

The library saw a diverse range of visitors from various fields, including arts, humanities, science, and non-teaching staff. Increased usage of online resources and the library's website (<http://gargicollge.saraswatilib.com/>) allowed for improved accessibility and understanding of e-resources. Significant consultation and borrowing of library materials occurred, with approximately 190,900 books consulted and loaned by users during the year. The library also organized various events such as book exhibitions on themes like Freedom Fighters and Yoga, enhancing user engagement and awareness. Collaborative efforts with AVNI for book donation drive and participation in events like Hindi Bhasha Diwas and International Yoga Day promoted community involvement and awareness. Utilization of electronic resource management packages enhanced control and access to a vast range of electronic resources through platforms like UGC-NList and NDLI. Lastly, the library continued its efforts to expand membership and access to library services, targeting postgraduate students and teachers through various library systems like Ratan Tata Library, Central Science Library, and others.

Faculty Strength

Senior Professor/Professor/Director: 18

Associate Professor: 51

Assistant Professor: 154

Ad-hoc.: 18

Guest: 22

Financial Allocation and Utilization

Grants allocated: ₹ 92.71 crore

Grants Utilized: ₹ 89.86 crore

HANSRAJ COLLEGE

Major Activities and Achievements

The college got its cycle 2 NAAC accreditation in 2023 with a CGPA of 3.71 and A++ grade, a major improvement on the cycle 1 score and placing us among the best in Delhi University and the country. We were also ranked 12th by NIRF in 2023 in all India College category. We have been consistently ranked among the top five colleges of India in all streams by the India Today magazine. In 2023, we were ranked 3rd in sciences, 3rd in Commerce and 5th in Arts. In a major initiative, the college embarked on a journey of empowerment, inclusion, and opportunity, marking the genesis of a transformative partnership with Michael and Susan Dell Foundation. The Dell Aspire Scholarship programme is a one-of-a-kind scholarship that aims at guiding students towards brighter futures and success at placements. The first cohort of 30 students were selected for this programme.

Honours/Distinctions

Faculty

Dr. Brijesh Rathi appointed as a ‘Scientific Advisor’ at Delhi High Court, New Delhi in June, 2023.

Dr. Mandeep Dixit received ‘AMT-Young Scientist Award’ by Association of Microbiologist of India in 2023.

Dr. Brijesh Rathi received ‘CAPES-Print Fellowship’ from Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, Ministry of Education, Brazil in March, 2024.

Publications

Scopus indexed journals

Rajpal, V. R., Sharma, S., Kumar, A., Chand, S., Joshi, L., Chandra, A., ... & Shiran, B. (2022). “Is Omicron mild”? Testing this narrative with the mutational landscape of its three lineages and response to existing vaccines and therapeutic antibodies. *Journal of Medical Virology*, 94(8), 3521-3539.

Bansal, M., Kumar, S., & Rathi, B. (2023). Synthesis of novel phthalimide-based piperazine conjugated analogs as anti-malarial agents. *Chemical Biology Letters*, 10(4), 627-627.

Sharma, R., Jain, C., & Paul, B. (2023). 4U 1626– 67 returns to spin-down: timing features toe the line. *Monthly Notices of the Royal Astronomical Society: Letters*, 526(1), L35-L40.

Rajpal, V. R., Prakash, S., Mehta, S., Minkina, T., Rajput, V. D., & Deswal, R. (2023). A comprehensive review on mitigating abiotic stresses in plants by metallic nanomaterials: prospects and concerns. *Clean Technologies and Environmental Policy*, 1-39.

Jain, C., Sharma, R., & Paul, B. (2024). A comprehensive study of orbital evolution of LMC X-4: existence of a second derivative of the orbital period. *Monthly Notices of the Royal Astronomical Society*, 529(4), 4056-4065.

Dhawan, P., Saini, A., Grover, K., Goel, S., Tyagi, N., Kumar, P., ... & Yadav, H. (2024). A methodical investigation on the growth and characterization of a third-order nonlinear optical novel co-crystal of 8-

hydroxyquinolinium phthalate: X-ray, Hirshfeld surface, optical, mechanical, thermal and DFT analysis. *Materials Research Bulletin*, 169, 112516.

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Kumar, S., Matouk, A. E., Kumar, P., Yadav, D. K., & Prasad, R. P. (2023). Analysis and Chaos Control and Synchronization of the Nonlinear Newton–Leipnik System Via Feedback Adaptive Control Techniques. *Journal of Uncertain Systems*, 16(04), 2330002.

Dixit, M., & Shukla, P. (2024). Analysis of endoglucanases production using metatranscriptomics and proteomics approach. *Advances in Protein Chemistry and Structural Biology*, 138, 211-231.

Ramlal, A., Mehta, S., Nautiyal, A., Baweja, P., Shivam, Sharma, D., ... & Rajendran, A. (2024).

Androgenesis in Soybean (*Glycine max* (L.) Merr.): A critical revisit. *In Vitro Cellular & Developmental Biology-Plant*, 60(1), 1-15.

Kumar, A., Kumar, P., & Vedeshwar, A. G. (2023). Anisotropic excitonic absorption in SbI₃ films: Theory and experiment. *Materials Letters*, 343, 134359.

Senrunga, A., Tripathi, T., Aggarwal, N., Janjua, D., Chhokar, A., Yadav, J., ... & Bharti, A. C. (2024). Anti-angiogenic Potential of Trans-chalcone in an In Vivo Chick Chorioallantoic Membrane Model: An ATP Antagonist to VEGFR with Predicted Blood-brain Barrier Permeability. *Cardiovascular & Hematological Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Cardiovascular & Hematological Agents)*, 22(2), 187-211.

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Saikia, M. (2023). Zymograms as a Tool to Detect PPIs in Host Plants of *Antheraea assamensis*. *Journal of Advanced Zoology*, 44(4).

UGC Care-list indexed journals

Mathew, J. (2023). Capitalism, Climate Crisis, and Methodological Challenges in Environmental History. *EPW Engage*, 58(28), 354-364.

Arora, P. M., Kapur, H., & Dastidar, A. G. (2023). Credit, housing prices, expectations, and the macroeconomy. Evidence from developed and developing countries. *Theoretical & Applied Economics*, 30(3).

Verma, P. (2023). Alternative Space: The Musical Narrative of Toni Morrison's Novels. *Rabindra Bharati Patrika*, 26(12), 31-37.

Web of Science indexed journals

Deep, A., & Batra, R. (2023). Common best proximity point theorems under proximal F-weak dominance in complete metric spaces. *The Journal of Analysis*, 31(4), 2513-2529.

Yadav, P., Gera, J., & Kaur, H. (2024). Enhancing the accuracy of collaborative filtering based recommender system with novel similarity measure. *Multimedia Tools and Applications*, 83(16), 47609-47626.

Research Projects

Dr. Brijesh Rathi, DST, Government of India, Small Molecule Drug Discovery for Rare Genetic Disorder Therapy, ₹ 10.21 crore.

Dr. Brijesh Rathi, INMAS-DRDO, Government of India, To Synthesize Noble Metabolic Pathways Inhibitors for the Development of Broad-spectrum Antiviral Therapy, ₹ 23.90 lakh.

Dr. Brijesh Rathi SERB, Government of India (ASEAN-India R&D Project), Target Based Screening and Development of Hydroxyethylamine Derivatives as Novel Antimalarials, ₹ 34 lakh.

Prof. Vijay Rani Rajpal, Molecular Mechanistics of sex-expression pattern in *Tinospora cordifolia*, a nutritionally and medicinally important dioecious liana, ₹ 31.88 lakh.

Prof. Vijay Rani Rajpal, DBT, Network programme for enrichment and update of database on genome related information for Indian Spermatophyta and Archegoniatae Taxa-Phase II, ₹ 35.46 lakh.

Seminars Organized

Seminar entitled 'Climate Change - Tunnel Vision' by Prof. Alison Greig, Anglia Ruskin University (in association with British Council) on August 25, 2023.

Seminar entitled 'India-Malta Burgeoning Relationship' by His Excellency Mr Christopher Cutajar , Permanent Foreign Secretary, Minister for Foreign and European Affairs and Trade, Government of Malta on September 29, 2023.

Seminar entitled 'Aspects of Measuring Lights' by Dr. Shibu Saha, Senior Scientist, CSIR-National Physical Laboratory, on February 22, 2024.

Seminar entitled 'Perspective of Laboratory Black Hole & Contributions of Indian Space and Fusion Programmes in the Viksit Bharat@2047' by Prof. S. Kar & Dr. R. P. Prajapati, Senior Prof. Department of Physics & Associate Professor of Astrophysics, JNU, on February 29, 2024.

Seminar entitled 'One Day International Seminar- cum- Industry Academia Interaction Session' by Dr. Jasminder Sahi, Senior Scientific Expert, Sanofi, USA on March 24, 2024.

Conferences Organized

Organised One-day National Conference on 'Tracing Democratic Ethos in Indic Civilization: Ideas and Structures' on November 3, 2023, in collaboration with ICSSR-NRC, Delhi

Organised One-day National Conference on 'Advance in Plant Biology (APB 2024)' on February 2, 2024.

Organised One-day National Conference on 'Innovative Technologies in Scientific Research' on February 28, 2024, under the aegis of IQAC, Hansraj College.

Organised One-day International Conference on 'Integrative Chemistry, Biology & Translational Medicine (ICBTM 3.0)' on March 3, 2024, in collaboration with SERB, DBT, CSIR, Delhi.

Organised One-day National Conference on 'Indian Knowledge System and its Ethical Imperatives' on March 16, 2024, in collaboration with ICSSR, Delhi.

Seminar/Conference Presentations (National / International)

International

Monika Koul (Botany) presented a paper titled, 'Tackling Plastic Pollution Role of Educational Institute' at the International Conference on Environmental, Agricultural, Chemical and Biological Sciences, CRESPI at IIT Delhi on June 5, 2023.

Ruchi (Commerce) presented a paper titled, 'Investigating the impact on employees performance and well-being in hybrid work model- A systematic review and Bibliometrics analysis' in 2-day International Conference cum Conclave 6.0 on HR in Dynamic Business Environment organised by IIM Jammu, held between October 14-15, 2023.

Manisha Verma (Commerce), presented a paper titled, 'Role of Technology in Transforming Accounting Practices' in 45th All India Accounting Conference and International Seminar on Accounting Education and Research 2023 organised by IAA Kerala Branch and Department of Commerce, University of Kerala under Technical session III: Technology 4.0 and Accounting held between December 9-10, 2023.

Sonal Gupta (Commerce) presented a paper titled, 'Role and Challenges of Women Entrepreneurs for Viksit Bharat' at the 9th International Commerce Conference organised by Dept of Commerce, DSE, University of Delhi held between March 14-15, 2024.

National

Monika Koul presented a paper titled, 'Substantial changes in selected VOCs and associations with health risk assessments in Industrial Areas during COVID 19 pandemic' at the International Conference on climate change, Sustainable Development and Smart Agriculture, Department of Zoology, Kalinga University, Naya Raipur, Chattisgarh, Sponsored by MoE and NABARD held between April 6-7, 2023

Priyanka Verma presented a paper titled, 'Contours of Intersectionality: Reading Caste, Class and Gender in Dalit Women Autobiographies in Hindi' at the Three Day International Young Researchers' Conference organised by EFLU, Hyderabad held between April 26-28, 2023.

Simran Sethi presented a paper titled, 'Relationship between Quality of Governance, Incomes and Human Development: A study across Developing and Developed Countries' organized by IIM Kashipur, Management Education and Research Colloquium, held between May 19-21, 2023.

Meghna Malhotra presented a paper titled, 'Analysis of Spillover Effects of Foreign Direct Investment in Indian Manufacturing Industries using Malmquist Index' at the 6th Asia KLEMS Conference, organised by the India KLEMS Organising Team, Della Resorts, Lonavala, Maharashtra held between June 11-13, 2023.

Monika Koul presented a paper titled, 'Arsenic mitigation in rice by the microbial combination of *S. indica* and *Z. sp. ISTPL4*' during 2023-24.

Manisha Verma presented a paper titled, 'A Bibliometric Analysis of Digital Entrepreneurship in the Digital Economy' in the 74th All India Commerce Conference-2023 organized by Department of Commerce Faculty of Commerce and Business, Delhi School of Economics, University of Delhi in association with O. P. Jindal Global University under Technical Session 1: Business Transformation and Digital Economy, held between December 13-15, 2023.

National/International MoUs Signed

MoU with Kumaun University, Nainital, Uttarakhand (National)

MoU with University of Debrecen, Hungary (International)

MoU with Federal Rural University of Pernambuco (UFRPE), Recife, Brazil (International)

MoU with Vishwaroop Education Private Ltd (National)

MoU with Taxman Allied Services Private Ltd (National)

MoU with Noble Citizen Foundation (National)

MoU with Pukyong National University, South Korea (International)

MOU with Michael and Susan Dell foundation (International)

Other Inter-Institutional Collaboration

MoU with Kumaun University, Nainital, Uttarakhand (National)

MoU with University of Debrecen, Hungary (International)

MoU with Pukyong National University, South Korea (International)

Placement Details

Number of students placed: 272

Number of Companies visited for campus recruitment: 154

Extension and Outreach Activities

Enactus Hansraj works on social entrepreneurship to carve a more sustainable world for us all. In 2023, the team reached the Top 16 stage in the Nationals hosted by Enactus India. Continuing this feat, the team secured 1st position in several B-Plan competitions hosted at renowned educational institutes such as Lady Shri Ram College and Miranda House College. Through its 3 running projects – Mehr, Ahsaas, and Vriddhi, the society has positively impacted thousands of lives in the past year. Project Mehr through continuous efforts has trained 25+ transgenders and received positive responses for its products at several exhibitions and stalls. Project Ahsaas is working on providing skill training to differently-abled people and establishing a job portal for the trainees. Under its vertical Armaan, it is planning on expanding its counseling sessions by providing a ‘Mental Health Kit’. Project Vriddhi is on its way to the completion of its 14th washroom based on stubble boards, at over 6 locations in the Delhi NCR region for the underdeveloped community, resolving the problem of open defecation and improve sanitation. In National Service Scheme, in the year 2023-24, our focus was awareness and outreach activities at the adopted villages. Sessions on organ donation, street plays and cleanliness drives under ‘Swachhata Hi Seva’ campaign showcased our commitment. Swachhata Campaign 3.0 focused on successful cleanliness campaigns. AIDS awareness sessions were conducted by eminent physicians. Initiatives for Padhaku kids under ‘Project Buniyad’ included Unmasking Emotions, mental well-being workshop, Doctor’s Day awareness session, water conservation poster competition, menstrual awareness and a self-defense workshop. The flagship event ‘NSS Mela - ADYATAN’, captivated audiences with traditional dances and a culinary journey. Educational initiatives included sessions in schools and a candle-making workshop for women. Under the “Health and

Environment” wing, we have organized a blood donation camp, and plantation drive, around the theme ‘Beat Plastic Pollution’.

Library Development

Hansraj College library has a very rich collection of different books. In the academic year of 2023-24, the total expenditure was ₹ 27,92,520. Books of different subjects and general books have been purchased after the recommendation of the selection committee. Total (1648) books have been subscribed and the total amount of ₹ 16,68,725 has been spent on the subscription of books. In addition, total (22) e- books were subscribed for the library and ₹ 1,73,941 were spent on subscription. To promote research and in-depth knowledge CMIE Economic Outlook has been subscribed and total ₹ 3,32,760 were spent on this item. All the prominent magazines are available for the users. KOHA software is used for library automation.

Faculty Strength

Senior Professor/Professor/Director: 22

Associate Professor: 64

Assistant Professor: 108

Ad-hoc faculty: 11

Guest: 35

Financial Allocation and Utilization

Grants allocated: ₹ 98.04 crore

Grants utilised: ₹ 92.69 crore

HINDU COLLEGE

Major Activities and Achievements

This year marked the 125th year of Hindu College, in honor of which the College organized a series of celebrations, which included talks, seminars, and cultural events. On August 31, the inaugural programme of the ‘Development Dialogue in the Campus of Higher Education Institutions’ scheme was organized on the topic ‘G20 Presidency and its Global Impact’. The Chief Guest of this event was the Minister of External Affairs, Dr S. Jaishankar. Hindu College also organized an interactive session January 25, 2024, graced by our Hon'ble Minister of Finance and Corporate Affairs, Smt. Nirmala Sitharaman. On November 28, 2023, a special parliament session – “Unlocking Minds” was organized, and the Chief Guest of the event was the Hon'ble Union Minister of Housing & Urban Affairs and Petroleum & Natural Gas Shri Hardeep Singh Puri. On December 5, 2023, the College hosted the momentous “Release of Commemorative Postage Stamp Celebrating 125 Years of Hindu College”, graced by Chief Guest Shri Devusinh Chauhan, Minister of State, Ministry of Communication, Government of India. On January 21, 2024, Hindu College continuing the celebrations of its 125th year organized a session with Shri Om Birla, Hon'ble Speaker, Lok Sabha as the Chief Guest for the event.

Honours/Distinctions

Faculty

NIRF: Rank 2, All India, 2023

India Today: Rank 1, All India (Arts and Science Streams), 2023

India Today: Rank 2, All India (Commerce Stream), 2023

NAAC: Grade A++ (Second Cycle), 2023

Publications

Scopus indexed journals

Srivastava, A., Dutta, S., & Jain, R. (2023). Waste mediated synthesis of iron nanoparticles using Aegle marmelos peel extract for catalytic degradation of toxic dye contaminants. *RSC Sustainability*, 1(9), 2261-2269.

Jain, R., Sharma, G., Kumar, S., Dubey, A., Gakhar, N., & Ghosh, C. (2023). Potential of plant mediated biosynthesis of iron nanoparticles and their application in dye degradation process. *Journal of the Air & Waste Management Association*, 73(6), 490-501.

Kumar, A., Hussain, A., Singh, U., & Singh, N. S. (2023). Dispersive Dielectric Behaviour of Ternary 0.49 BiFeO₃-0.20 Pb (Mg^{1/3}Nb^{2/3}) O₃-0.31 PbTiO₃ (BF-PMN-PT) Ceramic Near Morphotropic Phase Boundary Using a Modified Debye Model. *Journal of Electronic Materials*, 52(11), 7596-7606.

UGC Care-list indexed journals

Mahindru, R., Sethi, P., Kapoor, N., & Singh, D. (2023). Research Perspectives and Trends of Board Diversity and Corporate Governance: A Review and Bibliometric Analysis. *Academy of Marketing Studies Journal*, 27(4).

De, G. (2023). Decolonizing US anthropology: A view from India. *American Anthropologist*, 125(1), 171-173.

Saxena, D., Sharma, S., Sharma, S., & Jindal, V. (2024). Electric Vehicles: A Catalyst for Economic Growth in India. *Journal of Informatics Education and Research*, 4(1).

Web of Science indexed journals

Varshney, M.K. (2023). On the estimation of cure fraction using power Gompertz distribution under Bayesian approach. *Stochastic Modelling and Applications*, 1(26), 37-45.

Research Projects

Dr. Varundendra Singh Rawat, Dr. B.M. Bhatia Memorial Research Fellowship, Presence of Antibiotic resistant Genes and Proteins among Bacterial Diversity in the peri urban area of 'Yamuna River, ₹ 1.25 lakh.

Dr. Samridhi Mehta, Dr. B.M. Bhatia Memorial Research Fellowship, A Field Test of a Mixture Binary Randomized Response Model to Estimate the Prevalence of a sensitive characteristics in the finite population, ₹ 0.50 lakh.

Dr. Lalit Kumar, Dr. N.V. Thadani Memorial Research Fellowship, Investigating the Effect of Meditation on Stress and Anxiety Level on Undergraduate Students through EEG, ₹ 2 lakh.

Prof. Shalini Suryanarayan, Dr. N.V. Thadani Memorial Research Fellowship, An Investigation to Establish a Correlation between the 'Physiological' and the 'Psychological' Aspects of Ageing, ₹ 1 lakh.

Patents Filed/Granted

01 (Filed) and Indian Patent; Patent Holders: M. Patel, R. Kumar, P. Singh and D. Mohan; Title: 'Pyrolysis Reactor for the Biochar Production from Agricultural Residues'. (Patent No. 380921).

01 (Filed) and Indian Patent; Patent Holders: P. Singh, A. Saraswat and D. Mohan; Title: 'Pyrolysis Reactor for the Biochar Production from Agricultural Residues'. (Patent No. 402833).

Seminars Organized

Seminar entitled, 'Cryptography' by Prof (Dr) Geetha Venkataraman, Department of Mathematics, Ambedkar University, Delhi on April 23, 2023.

Seminar entitled, 'Black Pauses: Beckett and the Limitations of Medial Representation' by Dr. André Otto, Department of English, Ludwig Maximilian University in Munich on September 13, 2023.

Seminar organised by Department of Botany where Dr Alok Arun, Associate Professor at Inter American University of Puerto Rico, USA, was invited on October 14, 2023.

Seminar entitled 'Polymers' by Prof. Seema Agarwal, Department of Chemistry, University of Bayreuth, Germany on November 21, 2023.

Seminar organised by Department of History where Aishwarya Tipnis (Conservation Architect and Urban Planner) and Mohd. Imran Saifi (Archaeological Engineer) in Archaeological Survey of India on January 24, 2024.

Conferences Organized

Organised One-day National Symposium on 'Integrated Vector Management (IVM) Towards Elimination of Vector-Borne Diseases & Outreach Program for Public Awareness on Mosquito-Borne Diseases & Their Management' on June 9, 2023 by Department of Zoology, Hindu College, University of Delhi.

Organised One-day International Conference and Workshop on 'Twelve Principles of Green Chemistry and UN-SDGs' on November 9, 2023 by GCNC, Hindu College, University of Delhi.

Organised One-day National Conference on 'Recent Trends in Biological & Chemical Sciences ICRTBCS-23' on November 25, 2023 by Department of Chemistry, Hindu College, in collaboration with Shri Ramswaroop Memorial University.

Organised One-day 'Y20 Yuvamanthan Model G20 Conference and the Y20 Talk session' on November 28, 2023 in collaboration with Caucus – the Discussion Forum and Y20 India.

Seminar/Conference Presentations (National / International)

International

Dr. Ananya Barua, (Philosophy) presented a paper titled 'Losing Self to Gain Well-Being: Exploring (Buddhist) Identity in the Vortex of Mind, Emotions and Memories under the theme of Anthropology of Well-Being' in the 19th IUAES-WAU World Anthropology Pre-Congress Online International Conference on Anthropology In/Of The Future held between August 2-3, 2023.

Dr. Ruchi Verma (History) presented paper titled, 'The Study of Indo-Tanzanian Identities through Home-Making Practices' in an International conference on 'Rising Africa: Looking Back to Think Ahead' organized by MMAJ- Academy of International Studies, Jamia Millia Islamia (JMI), University & African Studies Association of India (ASA India) in collaboration with Centre for African Studies, Jawaharlal Nehru University (JNU) at India International Centre (IIC), New Delhi held between October 3-4, 2023.

Prof. Reena Jain (Chemistry) presented a paper titled, 'Presentation, Wastewater Remediation Using Plant-derived Zerovalent Iron Nanoparticles' in International Conference on 'Integrative Chemical Science for Health and Environment (ICHE-2023)' organized by the Department of Chemistry, Deshbandhu College, University of Delhi in association with Augusta University, USA; Indian Society of Chemists and Biologists (ISCB) and the Indian Association of Solid- State Chemist and Allied Scientists (ISCAS) held between October 6-8, 2023.

Ms. Vaishali Sharma (English) presented a paper titled, 'The Significance of Food in the Works of Toni Morrison and Gabriel Garcia Marquez' at the Thirteenth International Conference on Food Studies, at University of Guadalajara, Centro Universitario de Ingenierías (CUCEI).

National

Dr. Adarsh Singh (Physics) presented a paper titled 'Effect of salt stress on the electrical properties of Cucumber, Bottle Gourd and Ridge Gourd with aging' in CONIAPS XXIX, Shivalik Group of Colleges, Dehradun, Uttarakhand, India.

Prof. Achla Tandon (Sociology) presented a paper titled, 'University, Ethnicity and Boundary Maintenance' at the International Conference on 'Sociology of and In Regions: Pedagogy, Practices and Possibilities' organized by the Indian Sociological Society at the University of Lucknow.

Dr. Jagmohan (Sanskrit) presented a paper titled, "वेदों में विविध विज्ञान का आधार समकक्षवाद" in the अखिल भारतीय वेद-विज्ञान-सम्मेलन organized by विश्व वेद परिषद् परमार्थ निकेतन, पतञ्जलि विश्वविद्यालय, भारतीय कृषि अनुसन्धान परिषद् (कृषि मन्त्रालय भारत सरकार) held between April 29-30, 2023.

Dr. Anupam V. Sharma (Zoology) presented a paper titled, 'Manipulating the orientation behavior of mosquitoes—a targeted and an effective approach towards the eradication of mosquito-borne diseases', at the National Symposium on Integrated Vector Management (IVM) Towards Elimination of Vector-Borne Diseases & Outreach Program for Public Awareness on Mosquito-Borne Diseases & Their Management, Hindu College, University of Delhi held between June 9-10, 2023.

Dr. Ram Kumar Thakur (Political Science) presented a paper titled 'Mahatma Gandhi and Gandhism Today: Energizing India's Relations with Africa' in an International Conference organized by Department of African Studies, Faculty of Social Science, University of Delhi, titled: Gandhian Pedagogy: Beyond Violence and Non-Violence held between April 6-7, 2023.

Dr. Jagmohan (Sanskrit) presented a paper titled, “वेदों में विविध विज्ञान का आधार समकक्षवाद” in the अखिल भारतीय वेद-विज्ञान-सम्मेलन organized by विश्व वेद परिषद् परमार्थ निकेतन, पतञ्जलि विश्वविद्यालय, भारतीय कृषि अनुसन्धान परिषद् (कृषि मन्त्रालय भारत सरकार) held between April 29-30, 2023.

Dr. Anupam V. Sharma (Zoology) presented a paper titled, ‘Manipulating the orientation behavior of mosquitoes—a targeted and an effective approach towards the eradication of mosquito-borne diseases’, at the National Symposium on Integrated Vector Management (IVM) Towards Elimination of Vector-Borne Diseases & Outreach Program for Public Awareness on Mosquito-Borne Diseases & Their Management, Hindu College, University of Delhi held between June 9-10, 2023.

National/International MoUs Signed

MoU with Sangneria Foundation for Health and Education, Reckitt Benckiser ENA BV, Lynchburg College USA (International)

MoU with National University of Singapore (International)

MoU with King’s College London (International)

MoU with ICAR Nadri Karnal (National)

MoU with SONNEN (International)

MoU with IIT Bombay (National)

MoU with Hunar foundation (National)

MoU with NBCC India Limited (National)

MoU with Goethe Institute (National)

MoU with Allianz Francaise de Delhi (National)

MoU with Instituto Cervantes (National)

MoU with My Loktantra Foundation (National)

Other Inter-Institutional Collaboration

MoU signed with three North- East Colleges i.e. Dorjee Khandu Government College, Arunachal Pradesh; Nar Bahadur Bhandari Government College, Sikkim; and North Kamrup College, Assam on April 25, 2022 in the presence of distinguished chief guest Mr. Pema Khandu, honourable CM of Arunachal Pradesh (National).

MoU with University of York (International).

MoU with Green Chemistry Network Centre (National).

MoU with University of Ladakh sponsored by British Council (National).

Student under Exchange Program (Inbound/Outbound)

A total of 85 students were placed under Student Exchange Program during the academic year.

Placement Details

Number of students placed: 165

Number of Companies visited for campus recruitment: 137

Extension and Outreach Activities

Clothes Donation Drive: On February 17, 2023, a Clothes Donation Drive was conducted at the slum nearby Kashmere Gate where the volunteers of NSS Hindu college donated the discarded off clothes from the students and faculty members of Hindu College.

Nurses' Day Celebration: The Health Wing of NSS Hindu began the new session of 2023-24 by conducting an interaction with the nurses of Aggarwal Dharmarth Hospital on May 12, 2023, on the occasion of International Nurse's Day. **Meri Maati, Mera Desh:** On August 13, 2023 as part of the "Meri Maati, Mera Desh Campaign" NSS Hindu College with an intense spirit and feeling of patriotism organized a Panch Pran Pledge ceremony that promised to develop a commitment to nation-building amongst the students. A tree plantation drive was also conducted in college where more than 20 saplings were planted in the Amrit Vatika created within the campus. **Self Defense Workshop:** In an effort to empower young girls with the knowledge and skills to protect themselves, a self-defense workshop was organized on August 21, 2023 at sports complex, Hindu College by NSS Hindu College in collaboration with Delhi Police.

Blood Donation Drive: One of the most important events conducted under Health wing was the Blood donation drive that took place during the NSS Day celebration, on September 26, 2023, more than 90 blood units were donated on that day, and we witnessed active participation by the students of Hindu College who came up to donate blood in great numbers.

Swachhata Hi Sewa Campaign: Emboldening the vision of Swachhata Hi Sewa Campaign, dedicated volunteers of NSS Hindu College led a cleanliness drive on October 1, 2023. The volunteers segregated and collected biodegradable and non- biodegradable wastes around the region of the Shri Ram Institute for Industrial Research and Hindu College spanning an area of 1KM.

Cleanliness Drive: A cleanliness drive a slum visit as well was held on October 2, 2023, in commemoration of Gandhi Jayanti at Trikon Park, Malka Ganj. This initiative was an attempt to generate a spirit of compassion and empathy among the members of the society.

Initiation of Project Bunidhaari: Under the Project Bunidhari, routine collection of katran from various retail clothing and tailor's shops were carried out by the volunteers, so that new products could be designed and made. The eco-friendly products are handbags, doormats, coasters, dream catchers, which were also displayed on October 10, 2023, during the NAAC visit.

Library Development

A total of 1053 books of different departments were added to the library collection during this session. The library subscribes to 18 dailies and 36 print journals/magazines, both Indian and foreign, relating to different subjects, along with print journals. Users can also access 6150+e journals and 3164309 e-books through N-LIST from any remote location. During this session, more than 41000 volumes were issued and returned. Two new floors of 895 sq. meters each approximately are ready and soon to be open for use, on the second floor there is a reading space for 100 students and a stack area for books, and on the third floor, a Digital Resource Centre has been setup to access the available e-resources with a reading area for 50 users.

Faculty Strength

Senior Professor/Professor/Director: 14

Associate Professor: 65

Assistant Professor: 73

Ad-hoc faculty: 3

Guest: 33

Financial Allocation and Utilization

Grants allocated: ₹ 96.42 crore

Grants utilised: ₹ 97.46 crore (The actual grant received by the College from UGC is ₹ 96.42 (in crore) and the approximate expenditure in 2023-24 is Rs.97.46 (in crore). The deficit of the grant will be released by the UGC in the subsequent year subject to finalization of Accounts.)

HOLY FAMILY COLLEGE OF NURSING

Major Activities and Achievements

Anjali Sharma, B.Sc.(H) Student (Batch 2019-2023) was the University Topper and was awarded President's Silver Medal.

STUDENT NURSES ASSOCIATION HFCON was awarded 2nd best SNAI Unit at Delhi State Level during XXX SNA Biennial Conference on October 10, 2023.

Honours/Distinctions

Faculty

Prof. Cimil Babu has been awarded a Doctorate in Philosophy from INC, RGUHS University.

Students

Anjali Sharma of B.Sc.(H) Nursing was the College and University Topper. She Secured 1st Position in the batch 2019-2023.

Publications

UGC Care-list indexed journals

Kain, U., Kalra, R. & Tomar, A. (2024). A qualitative study to assess the lived experience among elderly after retirement in selected community in New Delhi. International Journal of Novel Research and Development, 9(3), b397-b402.

Masiwal, T., Khan, A. A. & Tomar, A. (2023). The co-relation between Big 5 Personality traits and Self-concept with Body image: A study on young adolescents. International Journal of Novel Research and Development, 8(6), d551-d557.

Sharma, B., Thomas, S., & Thongbam, R. (2023). A study to develop nursing care protocol regarding the care of child on mechanical ventilator and assess its effectiveness in terms of knowledge and practice among the staff nurses working in the intensive care unit in selected hospital of New Delhi. *Journal of Advanced Medical and Dental Sciences Research*, 11(5), 1-8.

Sivasanker, A. A., Brari, N., Singh, A., Kumar, R. S., Talwar, A., & Negi, L. (2023). Covid-19: Psychological Aspect on Health of the Adolescent. Zenodo (CERN European Organization for Nuclear Research).

Research Projects

Ms. Anshu Tomar, Holy Family Hospital, Study to assess the prevalence, knowledge and factors related to Iron Deficiency Anaemia with a view to develop and disseminate information booklet among adolescent girls in the selected area of Delhi, ₹ 0.50 lakh.

Prof. Raminder Kalra, Prof. Cimil Babu and Ms. Anshu Tomar, Holy Family Hospital, A study to assess the experience of International Tourists in India related to WASH (Water, Sanitation & Hygiene) in North India, ₹1.00 lakh.

Seminars Organized

Seminar titled “Simulation as a method of teaching” by Prof. Cimil Babu, Vice Principal cum Professor, OBG Department, HFCON on April 14, 2023.

Seminar titled “Updating skills in critical care Nursing” by Prof. Anney Avarachan and Prof. Giji John, Himalaya, CBS Publisher on February 21, 2024.

Seminar titled “National Health Schemes Latest updates” by Prof. Anney Avarachan and Ms. Anshu Tomar, CHN Department, HFCON on March 15, 2023.

Seminar titled “Quality Assurance in Nursing” by Prof. Cimil Babu and Ms. Smitha Jose, Vice Principal cum Professor & Associate Professor, Various agencies like Malabar, Himalaya etc. on March 21, 2024.

Conferences Organized

Organized “30th SNA Biennial conference Day” on September 4, 2023 by TNAI.

Organised “International Patient Safety Goals for Nursing students in India” on September 22, 2023 by ANEI.

Seminar/Conference Presentations (National / International)

National

Survey Presentation of PHC allocated area.

Seminar on Research Ethics.

Seminar on Research grants

Seminar on ICT Tools for advance research

National/International MoUs Signed

HFCON under University of Delhi in collaboration with Art of living foundation under aegis of Har Ghar Dhayan Campaign of Ministry of Education, Government of India.

Placement Details (Number and percentage of students placed)

100% students were placed during the year 2023-24.

Number of Companies visited for campus recruitment

A total of 2 hospitals visited the campus during the year 2023-24.

Extension and Outreach Activities

Urban Community Health experiences were facilitated through collaboration with the Community Health Department of Holy Family Hospital. Students were stationed in MCH centers in Defense Colony and Ali Village for this purpose. Additionally, students were assigned to rural community health experiences in RHTC Najafgarh, PHC Palam, and Ujwa. They actively participated in National Health Programs and health awareness initiatives through various activities such as group poster competitions, Continuing Nursing Education (CNE) sessions, projects, skits, role-plays, and street plays.

BLS training is organized for HFH supportive staff on every first Wednesday of the month.

Self-defense training by Delhi Police was organized from September 25-30, 2023.

An Art of Living session was organized for the students on March 16, 2024, and March 19-23, 2024 by HFCON in collaboration with the Art of Living Foundation, under the aegis of the Har Ghar Dhayan Campaign of the Ministry of Education, Government of India.

Library Development

Some e-books and e-journals, up to-date platform is made available for faculty and students. In order to enhance library facilities a team from the College visited the Christ University Library, Delnet and National Medical Library.

Faculty Strength

Senior Professor/Professor/Director: 4

Associate Professor: 3

Assistant Professor: 9

Ad-hoc faculty: Nil

Guest: 10

Financial Allocation and Utilization

Grants allocated: ₹ 37.11 lakh

Grants utilized: ₹ 37.11 lakh

INDIRA GANDHI INSTITUTE OF PHYSICAL EDUCATION & SPORTS SCIENCES

Major Activities and Achievements

The college organised interaction session on Tobacco control and on Annual Athletic Meet April 20, 2023. Recently, the college hosted Annual Day & Award Ceremony on April 27, 2023; National Technology Day on May 11, 2023; kids Athletics Day on May 7, 2023; Athletics Summer Camp from June 1-30, 2023; 9th International Yoga Day on June 21, 2023; Yoga Camp for Community from June 1-30, 2023; Integrated Sports: Skill Development from July 5-7, 2023; 36th Foundation Day and Alumni Meet on August 3, 2023; 77th Independence Day on August 15, 2023; Grassroot Level Gymnastic Championship from August 24-25, 2023; Counselling session on September 12, 2023; Workshop on Art of Living on September 13, 2023; Swachhta Seva Abhiyan under Ek Tarik Ek Ghanta campaign on October 1, 2023; Ethnic Day” on November 10, 2023; Flag hoisting on Republic Day on January 26, 2024; and Pledge ceremony on Voters' Day; Telecast of Pariksha Pe Charcha on January 29, 2024. The college ran evaluation centre for UG Courses by DU. Almost 80 students volunteered for Golf & Cycling events. One-day lecture on 'NET/SLET' was organized on March 12, 2024. NCC Mahotsav Aarambh-24 was celebrated in February 2024. Three-day training program on Research Methodology: Statistical Data Analytics through SPSS Software was organized from March 26-28, 2024. The college organized State Gymnastic Championship sponsored by Delhi Olympic Association from March 28-31, 2024.

Publications

UGC Care-list indexed journals

Singh, S., Singh, M., & Kesarwani, P. (2023). APPLICATION OF MANDALA ART FOR SUITABILITY ON HOME FURNISHING PRODUCTS. *Home Science*, 35(1), 109.

Singh, S., Singh, M., & Kesarwani, P. (2023). APPLICATION OF MANDALA ART FOR SUITABILITY ON HOME FURNISHING PRODUCTS. *Home Science*, 35(1), 109.

Shirotriya, A. K., Sharma, L., & Pandey, A. (2023). What Motivates Students to Physical Activity: Development and Validation of the Students Physical Activity Motivation Scale. *Journal of Health Management*, 09720634231196942.

Shirotriya, A. K., Sharma, L., & Beighle, A. (2023). Exploring the Barriers to Physical Education Opportunities in India's Schools: A Study of Parental Perceptions after the Unprecedented Performance at the Tokyo Olympics. *Education Sciences*, 13(12), 1184.

Seminar/Conference Presentations (National / International)

National

Dr. Man Singh presented a paper titled “Road Safety Awareness Campaign” at workshop on Road Safety Awareness Campaign held at the Institute under the joint aegis of Internal Quality Assurance Committee and Brahma Kumari Raj Yoga Meditation Centre, IGIPSS on February 27, 2024.

Prof. Sanjeev Kaushal presented a paper titled “Contribution of Hindi in National Unity” at the Institute by the Internal Quality Assurance Committee and the Official Language Implementation Committee, IGIPSS on February 5, 2024.

Prof. Sanjeev Kaushal presented a paper titled “Program for information about Hindi typing in computer” at IGIPESS on March 5, 2024.

Prof. Samiran Chakraborty presented a paper titled “Various Holidays and Rules” at the Institute organised by the Internal Quality Assurance Committee, IGIPESS on January 29, 2024.

Prof. Sandeep Tiwari presented a paper titled “Develop India @2047 Campaign” in a counselling session organized by the Internal Quality Assurance Committee with all the students of the Institute, IGIPESS on December 28, 2024.

Prof. Sarita Tyagi presented a paper titled “Burning Issues in Legal Matters” in a one day workshop organized at the Institute, IGIPESS on December 7, 2023.

Dr. Dharmander Kumar presented a paper titled “Environment Awareness Campaign” organized at IGIPESS on September 13, 2023.

Prof. Lalit Sharma presented a paper titled “Counselling session on the Information on curriculum and its future usefulness” organized at IGIPESS on September 12, 2023.

Dr.(Mrs.) Meenakshi presented a paper titled “NCC in career and registration process for NCC organized at IGIPESS on September 12, 2023.

Prof. Rajbir Singh presented a paper titled “Vigilance awareness” organized at IGIPESS on November 10, 2023.

Placement Details

Number of students placed: 160

Number of Companies visited for campus recruitment: 1

Extension and Outreach Activities

MP Sports Festival (West Delhi) was held from April 14-20, 2023 in the premises of the Institute. Mr. Parvesh Sabin Singh, MP, West Delhi was present to grace the occasion.

Library Development

With the successful Implementation of the Digital Library, the users of IGIPESS have got access to full text documents in digital format, i.e. old question papers, M.P.Ed., B.P.Ed. and B.Sc. courses, all Ph.D. Thesis and all M.P.Ed. Dissertations awarded since 2013. Presently IGIPESS Library Database "Vidya: Library Management Software" is maintained online through XAMPP Server.

The total library collection 12962 (9240 Accession Books, RR-2329 Reading Books, 795 Thesis and 598 Department Books) has been computerized and bar-coded into a database which can be searched through the Online Public Access Catalogue (OPAC).

Faculty Strength

Senior Professor/Professor/Director: 19

Associate Professor: 05

Assistant Professor: 01

Ad-hoc faculty: 00

Guest: 13

Financial Allocation and Utilization

Grants allocated: ₹ 20 crore

Grants utilized: ₹ 19.97 crore

INDRAPRASTHA COLLEGE FOR WOMEN

Major Activities and Achievements

The College celebrated Centenary on February 7, 2024 with the Hon'ble Vice President Sh. Jagdeep Dhankar as Chief Guest; Mrs. Dhankhar, and Prof. Yogesh Singh, VC, University of Delhi, as Guests of Honour.

NCC was revived in the presence of Major General Sanjai Vishwasrao, ADG, NCC. College became a Nodal Center for Nature Positive Universities Program and started “Viksit Bharat” Ambassador Club. Vedic Mathematics Workshop by Shri Ravi Aiyar; Seminar by Prof. Ratnabali, Dean-Academics; “Art of Storytelling in Bharatiya Cinema” by Shri Prasad, MP; Role of Women in Bhartiya Army by Lt. Col. Rajan Gupta; Amrit-Kalash Yatra under ‘Meri Maati Mera Desh’; Rakshabandhan with Agniveers are some of the programmes to mark NEP implementation; promotion of IKS, and government programmes.

Seminar by Mr. A.Sayeed, CTO, RedHat-USA and Mr. Birje, founder, ThinkStreet Technologies; a Curtain-Raiser on Start-up Conclave of Udhmodaya Foundation; were organized to mark India's Techade and promote entrepreneurship on campus.

Honours/Distinctions

Faculty

Prof. Poonam Kumria, Principal was awarded Certificate of Honour for contributions in the field of Higher Education by Her Excellency Mrs. Rosalia Arteaga, Former President of Ecuador.

Prof. Poonam Kumria, Principal was awarded the Fifth Dr APJ Abdul Kalam National Dedication Award for contributions in the field of Higher Education.

Prof. Poonam Kumria, Principal was an Expert Delegate, on “Resilience and Sustainability Summit: Vision 2047”, NIDM; speaker on Connected Disconnected Dots: Classrooms to Field Knowledge, Faculty Induction Programme; and Sixth Colloquy: Ganga Samvad, Blended Capacity Building Programme; and Coordinator Nature Positive University Program.

Dr Roopali Goyanka, Dr Vijay Gautam and Dr Seema Singh were promoted to the position of Professor.

Ms. Jyoti Sindhu received a Copyright on title “Social media marketing and Customer Based Brand Equity”

Ms. Chetna Gupta worked as a member of National Advisory Board for the Centre for Positive Philosophy and Interdisciplinary Studies.

Prof. Jyoti T Sharma was appointed Joint-Dean, Foreign Students Registry, University of Delhi.

Prof. Roopali Goyanka also participated as an Expert in Consultations on Draft Human Development Report of Delhi.

Faculty members served on Editorial Boards/ Reviewers for various journals; invited speakers/panelists/resource persons in various Conferences, FDPs and Seminars; and members of various Committees and Boards for syllabus revision and formulation of syllabus and Teaching -Learning Material.

Students

Rhea Sinha of B.A.(H) Psychology Part III secured Gold medal at Traditional Shito Ryu Karate Do State Challenge Cup.

Ananya Pandey of B.A.(H) Philosophy Part III secured Gold medal at Chhattisgarh State Closed Squash Championship.

Ishita Mehta of B.A.(H) Psychology Part III secured 1st Position in the University.

Megha Karn of B.A.(H) Geography Part II secured 1st Position in the University.

Publications

Scopus indexed journals

Mishra, V., Mudgal, N., Rawat, D., Poria, P., Mukherjee, P., Sharma, U., Kumria, P., Pani, B., Singh, M., Yadav, A. and Farooqi, F., 2023. Integrating microalgae into textile wastewater treatment processes: Advancements and opportunities. *Journal of Water Process Engineering*, 55, p.104128.

Harsimran, K., & Surbhi, K. (2023). The 1984 anti-Sikh pogroms: Phenomenological experiences and perceptions of direct and indirect victims of violence. *Sikh Formations*, Phenomenological experiences and perceptions 1-15.

Adhikari, T., Tripathi, N., Yadav, J., Tolani, H., Rao, M. V. V., Kaur, H., & Chalga, M. S. (2023). Intersectional inequalities in anthropometric failure among Indian children: evidence from the National Family Health Survey (2015-2016). *Journal of Biosocial Science*, 55(4), 669-696.

Shilpa, K., Kumari, A., Das, M. M., Sharma, T., & Biswal, S. K. (2023). Exploring Trauma Literacy Quotient Among Indian Journalists and a Way Forward in Post-Pandemic Era: A Case Study of India. *Journalism & Mass Communication Educator*, 78(2), 267-288.

Garg, C. C., & Goyanka, R. (2023). A comparison of the cost of outpatient care delivered by Aam Aadmi Mohalla Clinics compared to other public and private facilities in Delhi, India. *Health Policy and Planning*, 38(6), 701-707.

Yadav, J., Tripathi, N., Menon, G. R., Nair, S., Singh, J., Singh, R., & Rao, M. V. V. (2023). Measuring the financial impact of disabilities in India (an analysis of national sample survey data). *Plos one*, 18(10), e0292592.

Upadhyay, A., & Rai, S. C. (2023). Climate Change Analysis in Rangit Basin of Sikkim Himalaya. *The Oriental Anthropologist*, 23(1), 103-130.

Goyanka, R., & Garg, C. C. (2023). Out-of-pocket Expenditure on Medicines and Financial Risk Protection in India: Is the Sustainable Development Goal in Sight?. *Indian Journal of Human Development*, 17(1), 28-43.

- Jhunjhunwala, S., & Sharda, S. (2023). Corporate governance, innovation and firm performance: evidence from India. *International Journal of Business Innovation and Research*, 32(2), 226-251.
- Muttoo, S. K., Nisha, & Singhal, A. (2023). A novel privacy-preserving technique using steganography and L-diversity for multi-relational educational dataset. *International Journal of Information Technology*, 15(6), 3307-3325.
- Bedi, P. P. S., Bala, M., & Sharma, K. (2024). Extractive text summarization for biomedical transcripts using deep dense LSTM-CNN framework. *Expert Systems*, 41(7), e13490.
- Pahuja, S., & Agrawal, A. (2023). Board attributes and corporate social responsibility: a systematic literature review and future research perspectives. *Indian Journal of Corporate Governance*, 16(1), 108-138.
- Dhun, & Dangi, H. K. (2023). Influencer marketing: Role of influencer credibility and congruence on brand attitude and eWOM. *Journal of Internet Commerce*, 22(sup1), S28-S72.
- Saha, A. R., & Seth, S. (2023). From conflict to climate: refugees to IDPs (Internally Displaced Persons) in the Bay of Bengal. *Journal of the Indian Ocean Region*, 19(3), 204-219.
- Sengupta, D. (2024). Gendered Journeys: Hariprabha Takeda's Travelogue A Bengali Woman's Voyage to Japan (1915) and Other Writings. *South Asian Review*, 1-12.
- Kochhar, S. K., Sharma, A., Jain, D., Rani, G., & Gaur, V. (2023). A Blended Approach to Analyze Indian Stock Market during COVID-19. *International Journal of Computing and Digital Systems*, 14(1), 1-1.
- Kochhar, S. K., & Gupta, A. (2023). Deploying Change Modeling to Study the Evolution of COVID-19 Related Menstrual Health Issues. *Adv. Artif. Intell. Mach. Learn.*, 3(3), 1460-1481.
- Kochhar S.K., Karki M., Jain S., Rani G., Gaur V. (2023). Quantifying and Leveraging Emotions to Fight a Pandemic, *International Journal of Advanced Technology and Engineering Exploration*, 109, 1640-1665.

UGC Care-list indexed journals

- Sharda, S. (2023). Promoters' control and R&D investments: evidence from the Indian pharmaceutical industry. *International Journal of Indian Culture and Business Management*, 30(1), 83-101.
- Gupta, N., Bhattacharjee, M., & Saha, A. R. (2023). Association Between Sociodemographic Factors and the Health Orientation of Urban Consumers Toward the Consumption of High-Value Agricultural Products in India. *Arthshastra Indian Journal of Economics & Research*, 12(4), 8-24.
- Goyanka, R., Yadav, J., Kumar, M., & Sagar, S. K. (2023). Utilisation and Out-of-Pocket Expenditure for AYUSH Outpatient Care among Older Adults in India. *Chettinad Health City Medical Journal (E-2278-2044 & P-2277-8845)*, 12(1), 54-64.
- Gupta, V. & Jaggi, P. (2023). Psycho-social Aspects of Communication in Destructive Cults and Groups. *Aadhunik Sahitya*, 46(12), 289-294.
- Das, N. (2023). Foreshadowing. *Indian Literature*, 67(5 (337)), 105-112.

Web of Science indexed journals

- Rajput, A., Aggarwal, R., Sharma, A., Sahdev, S. K., & Kumar, M. (2023). Fractional Order on Modeling the Transmission of Devastative COVID-19 Infection: Efficacy of Vaccination. *Applications & Applied Mathematics*, 18(1).

Research Projects

Dr. Debjani Sengupta, SPARC, Memorialization of partitions (1947 and 1971) in the South Asian context, ₹ 65.0 lakh.

Dr. Shagufta, ICSSR, State Welfarism and Public Health Care-Assessing the Socio-Economic Spectrum of Jan Aushadhi Yojana with Focus on Public Awareness, Reach and Employment Opportunities, ₹ 9.0 lakh.

Dr. Seema Singh, ICHR, Awadhi Lokgeeton mein abhiviyakt Itihas ka Vishleshan, ₹ 3.0 lakh.

Seminars Organized

Seminar titled “Antarrashtriya Sandharb Mein Hindi: Chunatiyan Evam Sambhavnayein” by Ashish Kandve; Prof. Kusum Napsik; Prof. Premlata Vaishnav; Prof. Manju Mukul, Director, Swami Vivekanand Cultural Centre, Myanmar; Professor, Duke University, USA; Professor, Michigan University, USA; Professor, Department of Hindi, University of Delhi, on January 10, 2024.

Seminar titled “Kosh: Budgeting and Finance in Kautilya’s Arthshastra” by Ms Sumedha Verma, International Renowned Author and Historian, Geneva, on November 1, 2023.

Seminar titled "Philosophy of Contemporary Thinkers" by Prof. Hari Shankar Prasad; Prof. Estelita; Prof. Evandro Vieira Ouriques; Prof. K P Singh, Former HOD, Department of Philosophy, University of Delhi; Yoga Expert; Distinguished Guest and Professor, Communication School, Federal University of Rio de Janeiro and Researcher, Department of Philosophy, Paris, France; Director Gandhi Bhawan, University of Delhi, ICPR, on November 29, 2023.

Seminar titled “Computing Technologies in Panini Asthadhyai” by Dr. Chivukula Sree Rama Prabhu, Former Director General, National Informatics Centre, on September 5, 2023.

Seminar titled “The State of the Indian Economy” by Dr. Arvind Virmani, Member, NITI Aayog, on February 28, 2024.

Seminar/Conference Presentations (National / International)

International

Kumar, P presented a paper titled "Effect of Financial System on Complexity of Environment" in an International Conference organised by Jamia Milia Islamia University during January 19-21, 2024.

Sethi, R presented a paper titled “Translating and Interpreting: Role of Artificial Intelligence”, 5th International Hindi Conference, New York, organized by New York University, Michigan State University, Hindi Sangam Foundation held at Indian Consulate during October 20-21, 2023.

Sethi, R presented a paper titled “Sahitya aur Cinema ka Antarsambandh”, Indo-European Hindi Festival organized by Vatayan UK at Oxford Business College, London on October 14, 2023.

Majumdar, P presented a paper titled "The Internet, Storytelling and a Sociological Exploration of the Digital", at the XX ISA World congress of Sociology organised by the International Sociological Association, in Melbourne, Australia, from June 25, 2023 to July 1, 2023.

Yadav, S., Singhal. A presented a paper titled “Comparative Study of Clustering Techniques for Extractive Text Summarization”, 12th International Conference on Soft computing for problem solving (SocPros 2023) held during March 2023.

National

Sharma, H. B presented a paper titled "Bhoomandalikaran aur stri" at a National Conference of Kendriya Hindi Sansthan, Delhi held during March 15-16, 2024.

Gupta, C presented a paper titled “Bharatiye Darshan Ka Loksahitya Par Prabhav” in Two Days National Seminar titled, Indian Knowledge System: A Dialogue with Time, held at SPM College, University of Delhi in collaboration with IGNCA on February 23, 2023.

Jangra, S., Kumari, V presented a paper titled "Role of VDTN in smart cities” at International Seminar on ‘Sustainable Development and Global Issues’ organized by UGC-Human Resource Development Centre Bhagat Phool Singh Mahila Vishwavidyalaya In Association With, Shiksha Sanskriti Utthan Nyas" on October 7, 2023.

Verma, M presented a paper titled “स्वामी भगवदाचार्य जी कृत श्री रामानन्ददिविजय” in the National Seminar in Kullu (Himachal Pradesh) organised by Akhil Bhartiya Itihas Sanskalan Yojna with Yuva Itihaskar, Parishad, Kullu (HP) held on 10-11 June 2023.

Rani, G presented a paper titled "Viśva Kalyāṇa meṃ Bhāratīya Śikṣā Paddhatti ka Mahattva aura Yogadāna" in the One Day National Seminar Organized by Indraprastha Adhyayan Kendra (RSS), Delhi & Non-Collegiate Women’s Education Board, Delhi & Sanskrit evam Prachya Vidya Adhyayan Sansthan JNU & Chaudhary Charan Singh University, Meerut held on April 29, 2023.

National/International MoUs Signed

MoU with Rekhi Foundation for Art of Happiness

MoU with Udhmodaya Foundation and Samarth Bharat

Other Inter-Institutional Collaboration

In Collaboration with Udhmodaya Foundation, University of Delhi, a Curtain Raiser Event for Start-Up Conclave was organised to promote the spirit of Entrepreneurship among students. Dr. Abhishek Tondon, Joint CEO, Udhmodaya Foundation along with Shri Bharat Bhushan Arora, Member-Samarth Bharat and Director, Udhmodaya Foundation were the Chief Guest for the event where they announced the Start-up Accelerator Program (SAP). The event witnessed more than 500 participants with students and faculty members from various colleges.

The College collaborated with Sleepwell Foundation to organise a workshop on emotional health titled, “Proactive Emotional Wellness Workshop”.

Placement Details

Number of students placed: 111

Number of Companies visited for campus recruitment: 30

Extension and Outreach Activities

To mark the Ek Tareekh Ek Ghanta-Swachhta hi Sewa, the Principal along with a team of 60 students and 50 faculty members undertook a cleanliness drive at Khyber Pass, Delhi.

The NSS Unit of the college conducted an Awareness March as part of the "Mera Pehla Vote Desh ke Liye Campaign." A Seminar on Water Conservation with the theme 'Swachh Jal Swachh Mann' was held under Project Amrit, focusing on environmental conservation, in collaboration with Sant Nirankari Charitable Foundation. The NSS Unit and the Department of Physical Education jointly organized a Run for Unity and Pledge-Taking Ceremony on National Unity Day. A Swachhta Freedom Run (Plog Run) commemorating Gandhi Jayanti was held in collaboration with NCC. A 'First Aid Workshop' was organized in collaboration with the Department of Physical Education, featuring Mr. J. K. Sharma- Asst. Commissioner, Central Delhi District, St. John's Ambulance Brigade, Delhi, to provide basic first aid training covering various emergency scenarios. An inaugural talk on "Role of Youth in Community Development" was delivered as part of NSS Day celebrations. An awareness campaign against child labor was also conducted.

An Online Talk on Organ and Tissue Donation was conducted to mark International Organ Donation Day under Angdaan Mahotsav. An awareness march on the importance of a healthy and balanced diet was organized during Poshan Week.

Various events addressing environmental concerns such as E-waste Collection Drive, Ek Kadam Swachhata Ki Aur, and Swachhata Pakhwada were organized. To promote the spirit of cleanliness (Swachha Bharat), a Cleanliness Drive was organized during Swachhta Pakhwada. Fit India Mission converged with Swachh Bharat Abhiyan through Fit India Freedom Run 4.0 (Plog Run), promoting fitness and cleanliness simultaneously.

Given its focus on women, the college hosted events addressing women's health, welfare, and empowerment. The Department of Political Science organized a workshop titled "Breaking the Silence: Let's talk, Period" on Reproductive Hygiene Management conducted by Dr. Aakanksha Bhatia, Founder-MannRahi. The Enactus Unit, in association with Students for Seva (SFS) and Medivision, organized a discussion on "SHAKTI- Swastha Nari, Sashakt Bharat" to raise awareness on women's health issues, featuring Dr. Tanya Narendra (Dr. Cuterus) as a guest speaker.

On World Mental Health Day, the Department of Psychology hosted a workshop on Stress Management. Additionally, a webinar titled 'Ayurveda: A Philosophy of Complete Health' was conducted as part of Azadi Ka Amrit Mahotsav, featuring Dr. Mahesh Sharma to explore the ancient Indian holistic healing system – Ayurveda.

On 'International Biodiversity Day,' a Biodiversity Walk was held on the college campus under Mission Life.

Women's Development Cell organized a workshop, "Proactive emotional wellness Workshop" on Emotional Wellness and Emotional First- Aid on October 31, 2023.

Library Development

The College Library consists of 97855 books and 349 CD/DVDs. 559 books were added during this year and 4 books were withdrawn. The library subscribes to 67 Academic Journals and 19 Magazines & Newspapers. Library has institutional membership with UGC-NLIST and DELNET.

Library staff creates User-IDs and passwords for students and faculty to facilitate remote-access of subscribed e-resources of NLIST and DELNET. E-Books and Journals subscribed by the Delhi University Library System are accessible to college community in the library as well as remotely through institutional

email Ids. Library portal/website is updated with all necessary links and in-house digitised University Question Papers accessible to students and faculty. Annual stock-taking of library documents has been completed in time. In addition, the organisation of and participation in webinars/workshops/meetings/lectures by the Librarian with the Library committee under the aegis of IQAC was done. Library Extended Services include conduct of Library Orientations and accessing of e-Resources workshops and the access to Punjabi, Bengali, Hindi, Sanskrit and English books for the translation and research. Special services to PwBD users are provided in the Enabling Unit with the vision of providing library services under one roof by the Library Staff. Library facilitates access to visitors, researchers and members of the college community in the Museum and Archives Learning Resource Centre. Library Internship are provided to BLIS/MLIS students of Department of Library and Information Science & School of Open Learning University of Delhi and IGNOU.

Faculty Strength

Senior Professor/Professor/Director: 10

Associate Professor: 48

Assistant Professor: 137

Ad-hoc faculty: NA

Guest: 07

Financial Allocation and Utilization

Grants allocated: ₹ 66.15 crore

Grants utilized: ₹ 68.86 crore

INSTITUTE OF HOME ECONOMICS

Major Activities and Achievements

The Institute of Home Economics (IHE) is a constituent college of the University of Delhi. Situated in the heart of South Delhi, it is a premier institute imparting education to women. Established in the year 1961, it became a part of the University of Delhi in 1969. The college celebrated its Silver Jubilee in 1986 and the foundation stone of the new building was laid in 1987 by the then President Giani Zail Singh. In 2011, the college celebrated its Golden Jubilee with a series of national workshops, seminars and an oration by former President Dr. APJ Abdul Kalam. The college offers a bouquet of courses, including seven undergraduate courses in Home Science (Pass and Hons), Microbiology, Biochemistry, Food Technology, Journalism and Elementary Education and three post-graduate programmes in the domains of Food and Nutrition, as well as Fabric and Apparel Science. The college also offers a Ph.D. programme in Home Science. Of the many achievements of the college, the most important ones during the last few years include NAAC 'A' certification, FIST Grant (2016-2021) from the Department of Science and Technology and Star College Scheme Grant from the Department of Biotechnology (2017-2022).

Honours/Distinctions

Faculty

Dr. Sneha Yadav, Assistant Professor in Science department was awarded NESA YOUNG SCIENTIST OF THE YEAR 2023.

Dr. Vandana Sabharwal is a Technical Expert for Nutrition projects conducted by Chinmaya Organization for Rural Development and Public Health Nutrition Development Centre (2023 Onwards).

Prof Bani Tamber Aeriis a Peer Reviewer for 'PLOS One' (2019 onwards).

Prof. Shipra Gupta is a Coordinator of IGNOU-IHE Learner Support Centre 0787 (April 2023 onwards).

Prof. Geeta Chopra is a Member, Research Advisory Board, NIPCCD 2022-2025.

Prof. Jyoti Dalal is Vice President, Comparative Education Society of India, affiliated to WCCES (World Council of Comparative Education Societies) <http://www.cesindia.net>.

Prof. Geeta Chopra is a Member, expert group for skilling ECD workforce constituted by Healthcare Sector Skill Council and NITI Ayog (November, 2023 onwards),

Prof. Nidhi Gulati Member, Editorial Board, The Centre of Excellence in Teacher Education (CETE), TISS, Mumbai and UNESCO. National research on State of Teachers, Teaching and Teacher Education report 2023: The Right Teacher for Every Child (May 1, 2023- January, 2024).

Publications

Scopus indexed journals

Kawamura, Y., Kato, M., Miyawaki, R., Ishikawa, H., Muilenburg, J. L., & Tomar, Y. A. (2023). Cultural Tightness-Looseness: How Was It Related to Vaccination Behavior among University Students in Japan, the United States, and India?. *Vaccines*, 11(12), 1821.

Kausar, T., Bashir, K., Jan, S., Azad, Z. R. A. A., Jan, K., Kumar, Y., ... & Fatma, T. (2024). Optimizing psyllium husk and fenugreek leaves in meat patties: enhanced nutrition, reduced cholesterol and improved texture and color. *Journal of Food Measurement and Characterization*, 1-13.

Garg, M., Ali, M., Batra, V., Sadhu, S. D., Sharma, S., Basak, S., & Sablania, V. (2023). Quality evaluation of nutri-premix prepared by using millets and seeds of fruits and vegetables. *Journal of Food Science and Technology*, 60(11), 2782-2791.

Kataria, D., & Singh, G. (2024). Health benefits of ghee: Review of Ayurveda and modern science perspectives. *Journal of Ayurveda and integrative medicine*, 15(1), 100819.

Vijay, B., Diwan, B., Devkumar, P., Shankar, P., Vishnuprasad, C. N., Singh, G., ... & Shankar, D. (2023). Nasal application of sesame oil-based Anu taila as 'biological mask' for respiratory health during COVID-19. *Journal of Ayurveda and Integrative Medicine*, 14(5), 100773.

Arora, P., & Aeri, B. T. (2023). High pre-pregnancy body mass index and gestational weight gain among women belonging to upper SES from Delhi, India. *European Journal of Obstetrics & Gynecology and Reproductive Biology: X*, 20, 100258.

Sachdeva, B., Puri, S., & Aeri, B. T. (2023). Environmental imprints of agricultural and livestock produce: A scoping review from South Asian countries. *Journal of Human Nutrition and Dietetics*, 36(6), 2157-2169.

Mago, P., Kaur, S., Srivastava, I., Mehrotra, R., Kaur, K., Sharma, R., & Yadav, A. (2023). A review on unravelling the medicinal properties of magical mushrooms: *Cordyceps militaris*. *Biomedicine*, 43(5), 1368-1375.

Bhati, R., Nigam, A., Ahmad, S., Raza, K., & Singh, R. (2023). Structural–functional analysis and molecular characterization of arsenate reductase from *Enterobacter cloacae* RSC3 for arsenic biotransformation. *3 Biotech*, 13(9), 305.

Mishra, S. (2023). Metaphorical extensions of the color term kaala ‘black’ in Hindi. *Cognitive Linguistic Studies*, 10(2), 294-312.

Dev Jr, A., Vachher, M., & Prasad, C. P. (2023). β -catenin inhibitors in cancer therapeutics: intricacies and way forward. *Bioengineered*, 14(1), 2251696.

Bansal, S., Vachher, M., Arora, T., Kumar, B., & Burman, A. (2023). Visceral fat: A key mediator of NAFLD development and progression. *Human Nutrition & Metabolism*, 200210.

Sharma, A., Sharma, S., Dutta, S., Yadav, S., Dixit, R., Arora, B., ... & Sharma, R. K. (2023). A simple and straightforward strategy for expedient access to benzoxazoles using chemically engineered 2D magnetic graphene oxide nanosheets as an eco-compatible catalyst. *Dalton Transactions*, 52(32), 11303-11314.

Solanki, K., Sharma, S., Rana, P., Kaushik, B., Yadav, S., Dixit, R., ... & Sharma, R. K. (2023). A structurally engineered flower shaped magnetic hierarchical sorbent for rapid and selective uptake of Pb²⁺ ions from water samples. *Materials Chemistry Frontiers*, 7(19), 4482-4496.

UGC Care-list indexed journals

Gusain, Y., Malik A., Ahmed, S., Kumar, G. T., Pathak, R., & Gupta, S. (2024). Dietary Intake of Low and Normal Birth Weight Children Aged 8-14 Years from Underprivileged Areas of Delhi-NCR: A Comparative Study. *Indian Journal of Nutrition and Dietetics*, 61(1).

Jalan, D., Wadhwa, S., & Wadhwa, V. (2023). Revisiting Art for Wellbeing. *Third Concept*, 37(439), 49-52.

Web of Science indexed journals

Kaur, H., & Aeri, B. T. (2024). Metabolic syndrome among apparently healthy adults residing in Delhi: Do vegetarian diets have a protective effect?. *Journal of Family Medicine and Primary Care*, 13(1), 143-150.

Research Projects

Prof. Savita Aggarwal, MOEFCC-UNDP, Mainstreaming Gender in climate adaptation: Assessment of climatic risks and development policies, programs and action from a gender lens, ₹ 39.99 lakh.

Dr. Yuki Azad Tomar, ICSSR, Promoting Sustainable Development Goals via Entertainment Education on Commercial Hindi FM Radio Channels, ₹ 10.00 lakh.

Seminars Organized

Seminar titled “Establishing A Sustainable Entrepreneurship Ecosystem in Institutions of Higher Learning” in Amrit Kaal Vimarsh-Vikshit Bharat@2047 by Prof. Pawan K. Dhar, on February 21, 2024.

National online Symposium titled “Vidya Vistar Scheme (VVS)” by Prof Archana Burman, Dr Savita Bansaland and Dr Meenakshi Vachher Professor, Department of Biochemistry, Institute of Home Economics, University of Delhi, on February 9, 2024.

Seminar entitled “Production of recombinant therapeutics: Scale up challenges and remedies” by Prof. Yogender Pal Khalsa, Professor, Department of Microbiology, South Campus, University of Delhi, on November 2, 2023.

Workshop entitled “Word Art: A Fashion communication tool” by Mrs. Vandana Gupta, Fevicryl Certified Professional, on January 30, 2024.

Seminar entitled “How structure-function studies of metabolic enzymes in pathogens can be employed for therapeutics” by Dr. A. K. Sau, Staff Scientist, Department of Chemical Biology, Biochemistry & Structural Biology, National Institute of Immunology, on November 2, 2023.

Seminar/Conference Presentations (National / International)

International

B. Sachdeva, S. Puri, S. and B.T. Aeri presented a paper titled “Are healthy foods expensive- perception of women living in different areas of Delhi” at International Conference D4N: Delivering for Nutrition in South Asia, IFPRI on November 2, 2023.

Nidhi Gulati presented a paper titled “Panel Discussion on Insights and Reflections from the SOTTER Survey” at State of Teachers, Teaching and Teacher Education report 2023: The Right Teacher for Every Child. UNESCO and CETE, TISS Report, on January 18, 2024.

Neha Arya presented a paper titled “Ergonomic risk factors associated with workers involved in shaping and crushing activity in stone masonry work” at 5th International Conference on Global Insights on Research and Development in Agriculture, Horticulture and Allied Sciences(GIRDAHA), from October 5-7, 2023.

Neha Arya presented a paper titled “Analysis of ergonomic risk factors among manual load lifting workers involved in stone masonry work” at 3rd International Conference on Innovative Approaches in Agriculture, Horticulture and Allied Sciences organized by SGT University (ICAR Accredited), Just Agriculture Education Group, ISAHRD, organised by SGT University, Gurugram, from March 29-31, 2024.

National

Poonam Magu, K. Khanna, Dr. P. Seetharaman presented a paper titled “Ergonomics and Kitchen Design; Understanding differences between the Indian Kitchen and its American counterpart” at the IV Asian Conference on Ergonomics and Design, 21st Humanizing Work and Work Environment(HWWE) BRICS plus HFE Conference 2023 held at IIM, Mumbai at during December 14-16, 2023.

Renu and Geeta Chopra presented a paper titled “Exploring Child Rights in Teacher Education: A desk review of B. Ed. syllabi from Indian Universities” at National Conference on Learning (2023), organised by Lady Irwin College, DU, New Delhi, on December 2, 2023.

Deepti Saini and Nidhi Gulati presented a paper titled “योग, खेल, व्यायाम और शरीर: स्कूल के संदर्भ में मर्दानगी का निर्माण और अभिव्यक्ति at 'विद्यालयी शिक्षा में कला व शारीरिक शिक्षा : आवश्यकता, वर्तमान परिस्थितियाँ, सम्भावनाएँ व चुनौतियाँ’ organised by Indian Institute of Science Education and Research Mohali, from August 11-13, 2023.

Placement Details

Number of students placed: 21

Number of Companies visited for campus recruitment: 15

Extension and Outreach Activities

National online Symposium was organized by the Department of Biochemistry, Institute of Home Economics, and Zirtiri Residential Science College, Aizawl, Mizoram on February 9, 2024, the Vidya Vistar Scheme (VVS). Faculty members of the department, Prof Archan Burman, Dr Savita Bansaland Dr Meenakshi Vachherwere the speakers. The event was attended by around 100 students of both the colleges.

Department of Microbiology organized a visit to National Institute of Immunology Open Day Programme January 11, 2024. A total of 18 B.Sc. (Hons) Microbiology students participated in the visit. Prof. Sunita Aggarwal, Dr. Ashok Saini and Dr. Manish accompanied the students during visit.

Department of Microbiology organized a visit to India International Science Festival, held at RCB NCR Biotechnology Cluster on January 19, 2024. A total of 49 B.Sc. (Hons) Microbiology students participated in the visit.

Department of Microbiology organized a visit to National Institute of Immunology on the occasion of National Science Day on February 28, 2024.

Department of Microbiology organized a field trip to visit the mushroom cultivation facility at Shaheed Rajguru College of Applied Sciences for Women, University of Delhi on February 28, 2024.

Department of Elementary Education organized a field visit to Amrit Udyan on February 20, 2024 for B.El.Ed. third year students.

Department of Elementary Education organized a visit to Tilonia Bazaar on February 10, 2024 for B.El.Ed. first year students.

Department of Elementary Education organized a visit to Book Fair on February 14, 2024 for B.El.Ed. second year students.

The Department of Human Development and Childhood Studies conducted various activities on Gender Sensitization during the department academic fest conducted on February 22-23, 2024. These focused on an array of interactions related to the LGBTQI+ community and social advocacy on concerns of the transgender community.

Aarambh Child Development Centre under the department of Human Development and Childhood Studies conducted a three-week summer camp was organized for children in the age group of 3-12 years from May 22, 2023 to June 10, 2023. The summer camp aimed at providing opportunities for holistic development for children.

Collaborating with other colleges and Universities the department organized various events under the Vidya Vistar Scheme where faculty and students from Zirtiri Residential Science College, Mizoram joined online and participated in the conversations. These included a session with Dr. Sanjana Simon who talked of her lived experiences being a transgender female and also discussed the Transgender Act 2019. Another session focussed on the Art of Storytelling conducted by Ms. Archana Chandel from Story Tellers Tribe Delhi. They emphasized 'Kamishibai' the Japanese art of storytelling.

The department has been in collaboration with IGNOU and is a study centre for the execution of the Diploma and Masters course in Counselling and Family Therapy.

VOICES - Mental Health Society initiated and conceptualized by the department of HDCS celebrated its 5 years anniversary and organized various activities throughout the year. Some of the events include; 'Ankahi' – the open mic competition; 'Emoticon' – a comic strip writing competition; 'a photographohy competition titled 'shuttered stigma'; a monoact theatre competition titled 'bediyan' etc.

Commemorating the World Mental Health Day, team VOICES organized a workshop on Creating Boundaries conducted by Ms. Radhika Shakya.

The society also reached out to the community through an Art Competition that sought entries on the theme of 'Breaking Through Mental Health Stigma'.

The Department of HDCS celebrated World Mental Health Day (October 10) VOICES - The Mental Health Society organized a Workshop on Creating Boundaries conducted by Ms. Radhika Shakya. The society also reached out to the community through an Art Competition that sought entries on the theme of 'Breaking Through Mental Health Stigma.'

Department of Development Communication, Extension and Journalism conducted visit to seminar under G20 in collaboration with Planet India by The Balipara Foundation, Studio Silverback, Pluc.TV and Conservation on September 2, 2023 with 11 participants; visit to 1st Media Summit: Rising Regional Newspapers & the TechTide at PHD Chamber of Commerce and Industry on September 13, 2023 75 participants; visit to CSR Exhibition; field visit to Fever 104 FM on September 15, 2023; and faculty and students of IHE participated in the Summit on Gender Parity organised by PHD chamber of Commerce and Industry (PHDCCI) in collaboration with the Ministry of Women and Child Development on March 9, 2024 with 22 participants.

The Eco-club of IHE 'Prakritik' initiated by the Department of Resource Management and Design Application is committed to organise various environment-related activities and initiatives to sustain students' momentum in promoting environmental consciousness and action. This club creates ecological awareness among the youths and asserts its importance with the legacy of 'Go Green with Sustainable Living'. The key initiatives of the club include celebration of World's Wetland Day through creative expression of logo-making activity highlighting the importance of wetlands conservation, Poster-making competition to observe World Wildlife Day and conducting "Sankalp Sabha" for reducing pollution "Red Light On Gaadi Off". A field-visit to Okhla bird sanctuary was also organised where students were engaged into bird watching activities, nature walks and interactive discussions enhancing their awareness of environmental issues and fostering environmental stewardship. Recently, a hands-on workshop on 'Forest Landscape Sketches' was also organised with the theme 'Forest for Eco-Restoration'.

NSS- The celebration of Poshan Maha Pakwada was a community outreach programme where 70 volunteers along with IHE Faculty donated 70 Kgs ration consisting of pulses, rice, mustard oil, sugar at a community kitchen for the street vendors and rickshaw drivers at Dadi ki Rasoi in Noida. The organization acknowledged the efforts of IHE towards seven meals. The volunteers also participated in meal distribution.

Library Development

At present the library has a collection of over 22,927 resource materials which includes textbooks, reference books, thesis, and back volumes of journals, etc. It caters to the needs of over 1500 students, research

scholars and faculty members. The library circulation services are fully automated using KOHA software. The library has two reading halls with a seating capacity of eighty students.

In this year, 126 books were purchased with cost amounting to ₹ 1,21, 930. We also have subscription to N-list for which we pay ₹ 5900 annually.

Faculty Strength

Senior Professor/Professor/Director: 23

Associate Professor: 16

Assistant Professor: 43

Ad-hoc faculty: Nil

Guest: 36

Financial Allocation and Utilization

Grants allocated: ₹ 43.32 crore

Grants utilized: ₹ 46.78 crore

INSTITUTE OF HUMAN BEHAVIOUR & ALLIED SCIENCES

Major Activities and Achievements

The Department of Psychiatry was awarded 2nd position in Telemanas services for telephone calls attended in the country. The number of MD Psychiatry Seats were increased from 8 to 12. DM Geriatric Psychiatry course was initiated during 2023-24. Mental health awareness week was celebrated from October 10-16, 2023. Suicide prevention day was celebrated on September 10, 2023. The institute participated in IPU Health Mela from October 5-10, 2023.

In the Department of Neurology, DM Neurology seats have been increased from 03 to 10 per year. The Neurocognitive Lab and Neuropalliative Clinic were started. Also, the institute has been selected as Centre for conducting DNB Neurology Exams. The WSO ANGLES AWARDS 2022 “PLATINUM STATUS” from World Stroke Organization for stroke services was received.

In the Department of Clinical Psychology, MPhil continued with 11 seat during 2023-24. In Department of Psychiatric Nursing, Post Basic Diploma in Psychiatric Nursing with 20 seats was started during 2023-24. Also, MSc Psychiatric Nursing course affiliated to DU has been initiated for the year 2024-25.

Honours/Distinctions

Faculty

A scientific co-authored paper titled “Unveiling of the struggles of adolescents-exploring the interplay of childhood trauma and emotional regulation in externalising disorders” was presented at Child and Adolescent Psychiatry Conference held at NIMHANS, Bengaluru in November 2023 and won the JC Marfatia award for the best paper. Shipra Singh, Anadrika Debbarma, Pratibha Gehlawat and Deepak

Kumar co-authored a paper titled “Effect on Knowledge, attitude and practices of nurses following a brief educational programme on suicide prevention in a neuropsychiatric institute” and it got published in proceedings of 30th National Conference of Indian Association for Social Psychiatry (Raipur), from November 24-26, 2023. The authors received Dr. B. B. Sethi Poster Award for this presentation. Shipra Singh, Mina Chandra, Nitin Raut, Shrishti Dahiya co-authored a paper titled “Violence towards medical professionals in India- A growing concern and its aftermath” and published it in proceedings of 74th Annual Conference of Indian Psychiatric Society (Bhubaneswar, Orissa), from February 2-5, 2023. The authors received Professor K. C. Dube Poster Award. Somya Ritu, Aparna Goyal, Sonam Saxena, Deepak Kumar co-authored and presented a paper titled “Challenges in Reintegration of Females with Mental Illness admitted in Tertiary care Centre: A Retrospective Analysis” in Delhi Psychiatry Society Annual conference 2023 and received JS Neki Best Poster award. Dr Mahadev Singh Sen received Dr Buckshey Award, ACIPS-NZ and VD Meel Award - ACIPS-NZ.

Publications

Scopus indexed journals

Sarwal, R., Dhamija, R. K., Jain, K., & Basavaraddi, I. V. (2023). Efficacy of pranayama in preventing COVID-19 in exposed healthcare professionals: A quasi-randomized clinical trial. *Journal of Ayurveda and Integrative Medicine*, 14(1), 100586.

Kapoor, S., Saluja, A., Margekar, S. L., Agarwal, M., Mondal, S., & Dhamija, R. K. (2023). Neurogenic Supine Hypertension and Cardiovascular Autonomic Dysfunction in Patients with Parkinson's Disease. *Annals of Indian Academy of Neurology*, 26(1), 33-38.

Saluja, A., Goyal, V., & Dhamija, R. K. (2023). Multi-modal rehabilitation therapy in Parkinson's disease and related disorders. *Annals of Indian Academy of Neurology*, 26(Suppl 1), S15-S25.

Baruah, U., Sharma, P., Thomas, P. T., & Dhamija, R. K. (2023). Neuropalliative Care in India–Barriers, Challenges and Future Directions. *Annals of Indian Academy of Neurology*, 26(2), 107-101.

Owolabi, M. O., Leonardi, M., Bassetti, C., Jaarsma, J., Hawrot, T., Makanjuola, A. I., ... & Servadei, F. (2023). Global synergistic actions to improve brain health for human development. *Nature Reviews Neurology*, 19(6), 371-383.

Web of Science indexed journals

Kumar, S. (2023). Demographic Factors and their impact on Consumer Attitude towards Green Durable Products in Delhi/NCR. *World Journal of Advanced Research and Reviews*, 20(3), 1522-1534.

Tripathi, P., Ansari, M. A., Gandhi, T. K., Albalwy, F., Mehrotra, R., & Mishra, D. (2024). Computational ensemble expert system classification for the recognition of bruxism using physiological signals. *Heliyon*, 10(4).

Chockalingam, M., Srivastava, A., Gandhi, D. B., Solomon, J. M., Kamalakannan, S., Rajeswaran, J., ... & Surya, N. (2023). Digitalization of Neurorehabilitation in LMICs: Experiences from the Indian Federation of Neurorehabilitation. *Neurology India*, 71(4), 783-784.

Research Projects

Dr. Mahadev Singh Sen, National AIDS Control Society, Understanding enablers & barriers in OST delivery at public health facilities and community centers, ₹ 2.19 lakh.

Dr. Mahadev Singh Sen, National AIDS Control Society, Factors influencing access to offline services of Targeted interventions amongst virtually active MSM in Delhi, ₹ 2.19 lakh.

Conferences Organized

Organised International Webinar on “An update on Biomarkers in Dementia & MCI” on October 15, 2023 under Indian Psychiatric Society (IPS), IPS Geriatric Psychiatry Specialty Section & Biological Psychiatry subcommittee.

Seminar/Conference Presentations (National / International)

International

Shipra Singh Aparna Goyal and Om Prakash presented a paper titled “Current state of mental health in India: concerns and solutions at recovery from mental illness: challenges and solutions from across the globe” at WASP/RCPsych World Congress from January 16-18, 2023.

Pratibha Gehlawat, Tanu Gupta and Priti Singh presented a paper titled “Digital Addiction among children and adolescents: Update on interventions” in Diamond Jubilee International Conference on Mental Health (Chandigarh) from September 14-16, 2023.

National

Pratibha Gehlawat presented a paper titled “Rural Mental Health: The way forward” in 8th Annual Conference of Society for Rural Mental Health (Sirsa, Haryana), from September 29-30, 2023.

Shipra Singh, Nitin Raut and Anadrika Debbarma presented a paper titled “Enhancing Mental Health and Well-being in India's Aging Population: The Role of Technology in Geriatric Psychiatry” in 30th National Conference of Indian Association for Social Psychiatry (Raipur), from November 24-26, 2023.

K Aadhil, Druhin Grover and Shipra Singh presented a paper titled “Adverse childhood experiences and mental disorders: Relationship and pathways of prevention/mitigation” in 75th Annual National Conference of Indian Psychiatric Society (Kochi, Kerala) from January 18-21, 2024.

Akaksh Kishor, Ekansh Sharma and Shipra Singh presented a paper titled “Prolonged apnoea post m-ECT with Succinylcholine following organophosphorous poisoning: A case report” in 75th Annual National Conference of Indian Psychiatric Society (Kochi, Kerala) from January 18-21, 2024.

Priyam Verma and Shipra Singh presented a paper titled “Rapid Cycling Bipolar Affective Disorder in Intellectual Disability: A Case Report and Review of Literature” in 75th Annual National Conference of Indian Psychiatric Society (Kochi, Kerala) from January 18-21, 2024.

Ms. Vidhya Reddy presented a paper titled “Rehabilitation of POCSO victims: Strategies, Challenges, and way forward” in POCSO@10: Rehabilitation of POCSO victims: Strategies, Challenges, and way forward, organized by Delhi Commission for Protection of Child Rights (DCPCR), Government of NCT, Delhi on May 6, 2023.

Other Inter-Institutional Collaboration

Student under Exchange Program (Inbound/Outbound): MD students of IHBAS underwent training at GTB Hospital, LHMC, Safdarjung hospital. MD students of Psychiatry of LHMC, Safdarjung hospital, and MAMC underwent training at IHBAS.

Extension and Outreach Activities

Saksham: Model Halfway Home

Telemanas: IHBAS is the Regional Coordinating Center (RCC) for managing Tele MANAS Programme in 6 states/UTs (Uttar Pradesh, Uttarakhand, Himachal Pradesh, Jammu and Kashmir, Leh, Ladakh and Delhi)

DMHP: District Mental Health Programme (currently in 5 districts of Delhi)

MMHU: Mobile Mental Health unit (in 11 districts of Delhi)

SMHI: School Mental Health Initiative (in 20 MCD schools of Delhi)

Library Development

Addition of new books

NLM access

Faculty Strength

Senior Professor/Professor/Director: 14

Associate Professor: 18

Assistant Professor: 29

Ad-hoc faculty: NA

Guest: 2

Financial Allocation and Utilization

Grants allocated: ₹ 16.24 crore

Grants utilized: ₹ 1,2.53 crore

JANKI DEVI MEMORIAL COLLEGE

Major Activities and Achievements

The College signed MoUs with 2 Higher educational institutes in Uzbekistan on January 8, 2024. The college engaged in academic partnerships with the Samarkand State Institute of Economics & Service (SSIES) and Oriental University, Tashkent. Prof. Swati Pal, Principal, formalized the agreements with Dr. Aslanova Dilbar Hasanovna, Vice-Rector for Research and Innovation, SSIES, and Prof (Dr.) Murodjon Akhmedov, Rector, Oriental University.

In March 2023, the college received ISO 21001:2018 (EOMS) and ISO 9001:2015 (QMS) certifications, both accredited by NABCB. JDMC is the first college of the DU to obtain ISO 21001:2018 certification. This recognition is the validation of an effective educational management system as per international standards at JDMC. JDMC was chosen as one of the G20 Nodal Centres for Academic and Cultural activities with Argentina as our partner country. The college organized various activities throughout the academic session and put up a stellar show on November 20, 2023.

Honours/Distinctions

Faculty

Prof. Swati Pal, Principal was awarded - a. COAE International Esteemed Jury Award for an outstanding contribution in the Education sector, September 5, 2023 b. Japan Hindi Bhushan Samman from Hindi Cultural Center, Tokyo on December 3, 2023

Dr. Indu Jain (English) received an international fellowship Theatre Institute from University Of Cologne in June, 2023

Dr. Sushma Maurya (Commerce) received best paper award at international conference organised by Department Of Commerce, Faculty Of Commerce and Business, Delhi School Of Economics, University Of Delhi

Dr. Saumya Gupta (History) was awarded Nehru Memorial Museum and Library Fellowship for the period (2021-23)

Prof. Sudha Upadhyay (Hindi) received Dr. Sarojini Naidu International Award from Asian Academy of Film And Television University in Oct, 2023

Prof. Sandhya Garg, Vice-Principal and Prof. Sangeeta Gupta, both from Hindi department were awarded (international) Nepal-Bharat Samvad Samman For Her Hardwork And Invaluable Contribution To The Field Of Indian Journalism by KCM Publication in June, 2023.

Students

Ashmita Baburaj of BA (H) Economics of III year received the Yuva Kalashrestha Award from Nrityalaya on October 15, 2023.

Samriddhi of BA (H) Political Science of II year was selected by the Ministry of Culture, Madhya Pradesh to be a part of the 'Guinness World Record 2024' at Khajuraho Kathak Kumbh on the February 20, 2024.

Yahita Shokeen of BA (Prog.) II year has won Gold Medal in 50M Pistol Team, Bronze Medal in 25M Standard Pistol Team, VI Position in 50M Pistol Individual and XIII Position in 25M Standard Pistol Individual events in the ISSF World Championship Juniors, held at Changwon, Korea from July 14-25, 2023.

Varsha Chaudhary of BA (H) Philosophy III year topped University of Delhi and received a gold medal.

Catherina Replica Ratna of B.Sc (H) Mathematics I year authored a book on Bengalis Detained in Pakistan and Bangabandhu, followed by a successful book discussion program held in Bangladesh.

Publications

Scopus indexed journals

Kumari, V., Rai, V. K., & Pandey, D. K. (2023). Impacts of pandemic-related stimulus packages on the stock market: evidence from India and the USA. *International Journal of Indian Culture and Business Management*, 29(2), 271-292.

Lal, M., Kumar, S., Pandey, D. K., Rai, V. K., & Lim, W. M. (2023). Exchange rate volatility and international trade. *Journal of Business Research*, 167, 114156.

Pandey, D. K., Assaf, R., & Rai, V. K. (2023). Did the Indian stock market sail the Russia-Ukraine storm safely?. *The Journal of Economic Asymmetries*, 28, e00319.

Gupta, S. (2023). Culinary Codes for an Emergent Nation: Prescriptions from Pak Chandrika, 1926. *Global Food History*, 9(2), 175-193.

Gautam, P., & Kaur, C. (2023). A Novel Iterative Scheme To Approximate the Fixed Points of Zamfirescu Operator and Generalized Non-Expansive Map with an Application. *Lobachevskii Journal of Mathematics*, 44(4), 1316-1331.

UGC Care-list indexed journals

Meena, R. (2023). Impact of Social Audit on The Performance of The North Western Railway Zone Vis-À-Vis Passengers View On Improving Basic Passenger Amenities. *Journal of the Asiatic Society of Mumbai*, 96(8).

Maggo, M. S., & Shrivastav, S. M. Assessing The Trend of Integrated Reporting Research In India And Abroad: A Review Of Literature, *South India Journal Of Social Sciences*, 21(12), 120-133.

Narolia, V., & Sapra, R. (2023). Are Polluting Firms Disclosing Enough on the Environment: A Case of An Emerging Economy. *Journal of commerce and accounting research*, 12(2).

Singh, D., & Meena, R. Digital Transformation And Post Pandemic Growth For Small And Medium Enterprises. *South India Journal of Social Sciences*, 21(14), 145-154.

Kapoor, R., & Das, N. (2023). Rationalizing economic freedom for enhancing efficiency in the agricultural sector-An empirical evidence. *Agricultural Reviews*, 44(3), 410-414.

JAIN, I., & BANERJEE, T. N. (2024). Dossier—Negotiating Urban Spaces: Access, Care and Confinement in Contemporary Gendered Performance. *Theatre Research International*, 49(1), 89-94.

Gill, J., Rajyalakshmi, V. (2023). Witch- Hunting: An Instance of Violence Against Women. *South India Journal of Social Sciences*, 21(39), 63-68.

Madan, S., Singh, D.K., Arora, R., Garg, P. (2023). Bounds For Codes Detecting Repeated Bursts In Unequal Blocks, *The Bulletin of Calcutta Mathematical Society*, 115(3), 387-396.

Arora, R., Garg, P., & Madan, S. (2023). Linear codes detecting repeated b (fixed) bursts of unequal lengths in distinct sub-blocks. *Advances and Applications in Discrete Mathematics*, 40(1), 19-42.

Sonia, & Sarma, R. D. (2023). A topological approach for vector quasi-variational inequalities with set-valued functions. *Computational Management Science*, 20(1), 21.

Kanwal, P. (2023). Civil And Political Rights. *Journal of Indian School of Political Economy*, 35(6).

Web of Science indexed journals

Sinha, M. (2024). Multinational Enterprises: Sustainability Reporting in India. *Humanities and Social Science Studies*, 13 (2).

Sinha, M. (2023). ESG Investing Evolution And Challenges. *Bharatiya Shiksha Shodh Patrika*, 42 (2).

Bansal, S., Prasad, V., & Nagpal, P. (2023). Hypertext Narrative and Globalisation: Studying the Cultural Intersection of Carnavalesque and Altermodernism in Michael Joyce's *Twelve Blue*. *Literature & Aesthetics*, 33(1), 28-36.

Mishra, V., Mudgal, N., Rawat, D., Poria, P., Mukherjee, P., Sharma, U., ... & Sharma, R. S. (2023). Integrating microalgae into textile wastewater treatment processes: Advancements and opportunities. *Journal of Water Process Engineering*, 55, 104128.

Research Projects

Dr. Manisha Sharma, ICSSR, Mass Hysteria in Delhi: Imagined Realities (2001-2017), ₹ 0.70 lakh.

Dr. Vandana Mishra, Institute of Eminence, University of Delhi, Dept of EVS, University of Delhi, 'Environmental Prevalence and Emerging Environmental Threats from Aromatic Amines Developed in Wastewater from Textile Industry', ₹ 5 lakhs.

Mr. Abhinub Kumar, Research Centre, JDMC, A Study on Working Conditions and Evolving Dynamics of Agricultural Labourers in Bihar's Sugarcane Farming, ₹ 0.50 lakh.

Prof. Rajshree Chandra, Research Centre, JDMC, Ascetic Nationalism in India: Motivations, Practices and Histories, ₹ 0.50 lakh.

Prof. Ruby Bhardwaj, Research Centre, JDMC, Climate Change and its Impact on Women's Health: An Ethnographic Study, ₹ 0.50 lakh.

Seminars Organized

Seminar titled, 'The Praxis of Poorna Swaraj', by Dr. Dhananjay Rai, Writer of the book *Poorna Swaraj: Constructive Programme: Its Meaning and Place*, enlightening the students about Gandhi and his constructive programme in the rural areas of India on September 30, 2023.

Seminar titled, 'Some Reflections on Philosophy and Feminism: An Interactive Engagement' by Prof. Rakesh Chandra, Former Dean of Academics, Department of Philosophy, University of Lucknow on November 21, 2023.

Seminar titled, 'Role of Indian Constitutional Law in National Development' by Dr. Sourav Mandal and Mr. Vinod Madaan, Associate Professor at O.P. Jindal Global University and Deputy General Manager at O.P. Jindal Global University on November 28, 2023.

An international seminar titled, 'Social Justice' by Prof. Prabhu Prasad Mahapatra; Dr. Arun Kumar, and Mr. Nagraj Adve, Associate Professor at O.P. Jindal Global University and Deputy General Manager at O.P. Jindal Global University on February 20, 2024.

Seminar titled, 'Evolving Horizons: India's Foreign Policy in the 21st Century' by Ms. Kamakshi Wason, Global CEO and Director of Academics Programmes, Tillotama Foundation on February 23, 2024.

Conferences Organized

Organised One-day seminar titled, 'Sustainable Development: A road towards lifelong learning, on January 18, in collaboration with Department of Adult Continuing Education and Extension, University of Delhi

Organised One-day seminar titled, 'Enhancing Quality and Achieving Excellence in HEIs: Complementary and Converging Roles of NAAC Accreditation and ISO 21001:2018 Certification' on February 28, 2024.

Organised One-day International Conference on 'Pure and Applied Mathematics (ICPAM) 2024' on February 22, 2024 in collaboration with NBHM.

Seminar/Conference Presentations (National/International)

International

Anupama Rajput (Commerce) presented a paper titled, 'Micro Finance Financial Sustainability & Women Participation' at International Asian Congress On Contemporary Sciences - VIII on May 05, 2023.

Sakshi Bansal (Economics) presented a paper titled, 'Exploring Commonality In Liquidity And Volatility Risk Pricing In Indian Stock Markets' at AMMS 2023, 5th International Applied Mathematics, Modelling And Simulation Conferences Leipzig, Germany on July 14, 2023.

Saumya Gupta (History) presented a paper titled, 'Measuring Kitchen Time: Technology, Precision, Management' at 27th European Conference Of South Asian Studies on July 27, 2023.

V. Rajyalakshmi (Sociology) presented a paper titled, 'Empowerment of Women: Recent Initiatives' at Tashkent State University Of Oriental Studies, Uzbekistan on Jan 5, 2024.

Shankar (Mathematics) presented a paper titled, 'Uncertainty Principle And Zak Transform On Finite Non Abelian Group' at International Conference On Mathematical Analysis And Generalized Integration, on Feb 10, 2024.

Swati Pal (English) spoke as a panelist on 'A Pocketful Of Seeds', at Glass House Festival, Poetry From Around The World (International) Organized By Artmantram on March 23-24, 2024.

National

Payal Nagpal (English) presented a paper titled, 'Translation And/As Inter-Cultural Communication In The Teaching Of Foreign Languages' at Fundamental Aspects Of Improving Teaching Foreign Languages In The Epoch Of Modern Globalization on Feb 8, 2023.

Manisha Sinha (Commerce) presented a paper titled, 'Impact Of ESG Ratings On Stock Performance' at 74th All India Commerce Conference on Nov 18, 2023.

Tannu Sharma (English) presented a paper titled, 'Morality, Conduct And Etiquette in The Long Eighteenth Century' at IISECS 2024 Conference, JNU, Delhi on Jan 18-19, 2024.

Md Khurshid Alam (History) spoke on 'The Miraculous Feminine Within Islamic Mysticism' at the International Conference On Exploring The Frontiers Of Research In Medieval Indian History, Centre Of Advanced Study, Department Of History, A.M.U Aligarh from Feb 5-7, 2024.

National/International MoUs Signed

MoU with Oriental University, Tashkent, Uzbekistan - to promote collaboration and knowledge exchange across shared disciplines and to foster mutual cooperation and academic partnership between the two institutions (International).

MoU with Samarkand Institute of Economics and Service, Uzbekistan - to promote collaboration and knowledge exchange across shared disciplines and to foster mutual cooperation and academic partnership between the two institutions (International).

MoU with Silk Road International University of Tourism and Cultural Heritage, Uzbekistan University - to promote collaboration and knowledge exchange across shared disciplines and to foster mutual cooperation and academic partnership between the two institutions (International).

MoU with Tashkent State University of Oriental Studies, Uzbekistan - to promote collaboration and knowledge exchange across shared disciplines and to foster mutual cooperation and academic partnership between the two institutions (International).

MoU with Research Tourism Development Institute, Uzbekistan - to promote collaboration and knowledge exchange across shared disciplines and to foster mutual cooperation and academic partnership between the two institutions (International).

Other Inter-Institutional Collaboration

Mr. Puran Singh Negi, advisor Edible Routes and Nishtha Terrace Garden. - to design, facilitate implementation and monitoring of JDMC Kitchen garden from September 1, 2023 to July 31, 2024.

AV Financial Experts Network Private Limited (FinX - Making the students industry and job ready through the certificate courses offered by FinX and its subsidiary companies.

JDMC entered its second academic collaboration with Devnar Foundation for the Blind, Secunderabad in May 2023. Point of Contact for this collaboration is Dr. Md. Zubeer Ahmed, Director, Centre for the Study of Disability Inclusion (CSDI).

Placement Details

Number of students placed: 49

Number of Companies visited for campus recruitment: 11

Extension and Outreach Activities

On the occasion of World Glaucoma Week, the Community First Initiative organised a session on 'Uniting for a Glaucoma Free World' on March 11, 2024. The Department of HDFE in collaboration with Community First initiative, Centre for Extension and Outreach (CEO) activities under the aegis of IQAC, organised Sensitization on Retinoblastoma: Community-based Approach (on the occasion of World Cancer Day) on February 4, 2024.

The Community First Initiative in association with the National Community Engagement Academic Network, organised a college-level workshop on youth activities for the aged on National Youth Day on January 12, 2024. We also received a certificate from the National Community Engagement Academic Network for this initiative. Under the aegis of IQAC and in collaboration with Love Care Foundation, Community First Initiative successfully organised Donate a Thali from November 1-10, 2023. Community

First Initiative, JDMC-IQAC CEO Activities organised a Book Collection Drive for Jazbaa Foundation (NGO) from October 10-30, 2023. The Department of HDPE under the aegis of Community First Initiative in collaboration with Womenite, successfully celebrated Joy of Giving Week (Daan Utsav) from October 2-8, 2023. Food items, stationary, Mayur jugs etc. were distributed in the Skill Development Centre, RHA slums, Possangipur Village, Senior Citizens' Home, and nearby neighbourhood areas. Community First Initiative under the aegis of IQAC in collaboration with RobinHood Army to celebrate Independence Day successfully completed Mission Swades on August 14, 2023, and 1094 kgs of ration was contributed.

Library Development

Books have always been regarded as a necessity in the establishment of a college, and therefore, the library serves as its core. It is the responsibility of the library to motivate the students to continue learning throughout their lives. The JDMC library is constantly changing and upgrading its resources to contribute effectively to the instructional programme and meet the needs of the faculty, students and alumni. The library is fully computerised and has successfully shifted its software on Cloud server. The library catalogue is available 24x7 at jdmcopac.lsease.in. Libsys is an integrated Library Management System where all the housekeeping jobs are performed. The database for the new books and journals is added and updated regularly. The library also subscribes to digital databases, Nlist and Sugamya Pustakalaya and also has access to various databases subscribed by the Delhi University Library System. A separate faculty reading and research room with laptops, a newly developed E-resource Centre for 43 students and a state-of-the-art recording room with internet facility are available for students and teachers. The library has kindles and a digital board to keep the students updated. To ensure and keep a tap on the footfall, the library has installed a scanner at its entry gate. In order to create more reading space, a mezzanine floor has been developed in the Reference Section of the library with a seating capacity for 50 more students. JDMC believes in inclusive education, its library thus provides an equal access to the visually challenged users and has developed resources to meet their requirements. It has installed screen reading software in 5 laptops at the E-resource Centre and an exclusive room is also maintained with 7 laptops with screen reading software, scanner with editing S/w, braille books and talking books.

LIBRARY ACTIVITIES: As a part of its Annual Library Festival, JDMC Library organised a week-long Inter-college activity for the students commencing from October 9, 2023 which included Photography competition on My Library, Poetry writing and Poster-making competitions. A Braille reading competition for the college students with special needs was also organized. On October 18, 2023, the Library hosted a Panel Discussion on the topic Libraries are still Relevant in the Digital Era. Dr Sanjay Garg, Deputy Director, National Archives, chaired the session. Other panellists included Prof. Nandini Sahu, a poet and a writer, IGNOU, Mr Kumar Sanjay, Director Library, Niti Ayog and Dr. Aakash Singh, Senior Assistant Librarian, National Law University New Delhi. An Online Awareness Programme for the faculty members was organised on the DU E- Library, E-Resources and Digital Archives with Ms. Bhawna Vashishtha of Delhi University Library System as the resource person on August 11, 2023, on the National Librarian's Day to celebrate the 131st Birth Anniversary of Padmashree Dr. SR Ranganathan, the Father of Library Science. The programme was organised as a part of Janbhagidari event, celebrating India's G20 Presidency, as suggested by the Ministry of Education, Government of India. The programme was well attended with more than 90 participants. To celebrate the Yoga Day a Book Exhibition was organised in the library at the Faculty Reading/Research Room from June 21- 23, 2023. Books on yoga and benefits of performing it

every day, fitness, ayurveda and other Indian medicines were displayed. There was good participation from students and teachers who also appreciated the exhibition.

Faculty Strength

Senior Professor/Professor/Director: 18

Associate Professor: 37

Assistant Professor: 95

Ad-hoc faculty: 02

Guest: 26

Financial Allocation and Utilization

Grants allocated: ₹ 61.50 crore

Grants utilised: ₹ 61.50 crore

JESUS & MARY COLLEGE

Major Activities and Achievements

The institution has been ranked 38 by the National Institutional Ranking Framework (NIRF), Ministry of Education, Government of India. The institution organised two major International Conferences in the last academic year: International Conference on 'Researching Schools, Children and Childhoods' was organised by the Department of Elementary Education on March 20, 2024, and International Conference on 'India@2030: Third Largest Economy in the World' was organised by the department of Commerce, sponsored by ICSSR, on January 29-30, 2024. The Annual Fest of the College – Montage 2024 was successfully held on March 15-16, 2024. 'Pandemic Perspectives: Praxis, Policy and Pedagogies' - edited by Prof. Sandra Joseph and Prof. Reena Marwah, with contributions from 26 faculty members from JMC, was launched on November 20, 2023, published by Knowledge World. The Department of Commerce successfully facilitated internship opportunities for approximately 130 students under the Skill Enhancement Course. The Community Engagement Centre (CEC) organized an ongoing tailoring course which takes place in 6 batches, training 59 women from the nearby communities. CEC organized various awareness sessions on Government schemes for the women at the Centre as well as at Sanjay Camp. CEC also organized sessions for NCWEB students on entry-level jobs, investment banking, UPSC, cost accountancy, and stock & investment banking.

Honours/Distinctions

Faculty

Prof. Sandra Joseph (Principal) has received a Recognition by Dental Surgeons Association of India and Dental Students Welfare Association of India. She has received an Award of Appreciation for organising Voluntary Health Check-up Camp at Jesus and Mary College in April, 2023.

Dr. Richa Raj (History) has received a Recognition at the National level as an Associate NCC Officer, she led a team of 32 NCC cadets of Delhi Directorate to participate in Rock Climbing and Training Camp, Pithoragarh, Uttarakhand in June, 2023.

Dr. Divya Agarwal (BA Programme) has been awarded Trophy by International Year of Plant Health for successful implementation of Forests 2022 (NAAC, MOOC, NIRF) Accredited course in July, 2023.

Prof. Sandra Joseph (Principal) has received a Recognition from Vishwa Yuvak Kendra, New Delhi for 'Outstanding Social Contribution' in November, 2023.

Dr. Kashish Dua (English) has received an International Fellowship opportunity in from Fulbright Nehru Doctoral Fellowship in the University of California, Berkeley in February, 2024.

Prof. Sandra Joseph (Principal) has been awarded at the international level with 'Ambassador for Peace' Award by Universal Peace Federation, Japan.

Publications

Scopus indexed journals

Brandon, A. N., & Hill, D. R. (1995). Selected list of books and journals for the small medical library. *Bulletin of the Medical Library Association*, 83(2), 151.

Jacob, N. R., Aggarwal, S., Saini, N., Wahid, R., & Sarwar, S. (2023). Sustainability in the global value chain—a scientometric analysis. *Environmental Science and Pollution Research*, 30(45), 100301-100324.

Motwani, A. (2023). Sustainability Reporting: Recent Trends, Present Scenario and the Way Ahead. *BUSINESSES: RESILIENCE AND SUSTAINABILITY: Evidence from Emerging Market Developing Economies*, 71-88.

Kapoor, B., & Sondhi, V. (2024). Exploring the Understanding of Globalization: A Qualitative Study of the Urban, Educated, Middle-Class, Young Indians. *Culture & Psychology*, 30(2), 367-386.

Antony, T. A., & Kapoor, B. (2023). Portraits of Life After Loss: Understanding Parental Loss Within A Social Context. *Journal of Family Issues*, 0192513X231204981.

Tushya, Chhabra, D., & Abraham, B. (2023). Social networking or social isolation? A systematic review on socio-relational outcomes for members of online gaming communities. *Games and Culture*, 15554120231201760.

Srivastava, A. K., & Misra, G. (2024). *A Contextual Approach to Human Development: Integrating an Indian Perspective*. Taylor & Francis.

Prakash, N., & Radhakrishnan, S. (2023). Well-Being of Academics During COVID-19: Findings from a Quick Scoping Review. *Human Arenas*, 1-18.

Jacob, M. (2024). Ascension of Christ. In *Christianity* (pp. 113-114). Dordrecht: Springer Netherlands.

Avila, S., Thome, N., Cord, M., Valle, E., & Araújo, A. D. A. (2013). Pooling in image representation: The visual codeword point of view. *Computer Vision and Image Understanding*, 117(5), 453-465.

Jacob, N. R., Thomas, N. M., Agarwal, S., Saini, N., & Vasa, L. (2023). What facilitates and impedes the adoption of sustainability in global value chains? A Grey-DEMATEL analysis. *Environment, Development and Sustainability*, 1-29.

Motwani, A. (2024). Fathers and childcare: Are gender social norms in India changing?. *Sociology Compass*, 18(1), e13161.

David, B. E., & Kumar, S. (2023). Child development beyond the nutrition-specific models: bridging the pathways via psychosocial stimulation. *Frontiers in Psychology*, 14, 1273591.

Mahiya, K., Yadav, A. K., Kumar, M., Raw, K., Chhavi, A., Agarawal, D., ... & Kumar, N. (2023). Mobility of heavy metals present in industrial and municipal sludge and their phytotoxicity assessment during early seedling growth of Kenaf (*Hibiscus cannabinus*). *Journal of the Indian Society of Soil Science*, 71(4), 436-443.

Motwani, A. (2023). Sustainability Reporting: Recent Trends, Present Scenario and the Way Ahead. *BUSINESSES: RESILIENCE AND SUSTAINABILITY: Evidence from Emerging Market Developing Economies*, 71-88.

UGC Care-list indexed journals

Motwani, A. (2024). Fathers and childcare: Are gender social norms in India changing?. *Sociology Compass*, 18(1), e13161.

Moore, D. C. (2024). East, West, and South: Complex Asymmetries in Postcolonial/Post-Soviet Debates since 2001. *Ab Imperio*, 2024(1), 31-61.

Dougall, M. and Antony, J. (2023). Parents of Juvenile Delinquents: Use of Adaptive and Maladaptive Coping Strategies. *Indian Journal of Criminology*, 51, 1-14.

Web of Science indexed journals

Jacob, N. R., Aggarwal, S., Saini, N., Wahid, R., & Sarwar, S. (2023). Sustainability in the global value chain—a scientometric analysis. *Environmental Science and Pollution Research*, 30(45), 100301-100324.

Jacob, N. R., Thomas, N. M., Agarwal, S., Saini, N., & Vasa, L. (2023). What facilitates and impedes the adoption of sustainability in global value chains? A Grey-DEMATEL analysis. *Environment, Development and Sustainability*, 1-29.

David, B. E., & Kumar, S. (2023). Child development beyond the nutrition-specific models: bridging the pathways via psychosocial stimulation. *Frontiers in Psychology*, 14, 1273591.

Research Projects

Prof. Reena Marwah, ICSSR, Indic & Sinic Visions of Asian Security; Explorations into the concept of Strategic Patience, ₹ 11.82 lakh.

Dr. Pavitra Bhardwaj, ICSSR, Leveraging Digitalisation for Entrepreneurship in Rural and Urban Areas of India: An Assessment of the Digital India Programme, ₹ 5 lakh.

Seminars Organized

Seminar entitled ‘Career Prospects beyond Psychology’, by Dr. Sneha Kapoor, OP Jindal Global University on September 20, 2023.

Seminar entitled ‘UPSC Examination’, by Vaibhav Mishra; Mangal Singh, Faculty at Rau’s IAS on October 19, 2023.

An International Seminar entitled, ‘Girl (Un)Interrupted: Identity, Experience, Agency and Representation’, by Dr. Aria S. Halliday; Dr. Anastasia Todd; Dr. Sujatha Subramanian, Associate Professor, Department of Gender and Women’s Studies Program in African American and African Studies, University of Kentucky; Assistant Professor, Department of Gender and Women’s Studies, University of Kentucky; Lecturer, Department of Gender, Women’s and Sexuality Studies, Ohio State University, N.A. on November 2, 2023.

Seminar entitled ‘Preparation strategy for Civil Services Exam: Next IAS’, by Mr. Vaibhav Priya, IPS officer on November 9, 2023.

Seminar entitled ‘Festa Marketing, Cyber Security and Digital Marketing’ by Mr. Yogachandran Rahulamathavan, Senior Lecturer in Cyber Security and Data Analytics at the Loughborough University on January 27, 2024.

Conferences Organized

Organised One-day Conference on ‘Mental Health and Well-Being’ on March 19, 2023.

Organised One-day International Conference on India @ 2030: World’s Third Largest Economy’ on February 29, 2024 in collaboration with ICSSR, Delhi.

Organised One-day International Conference on ‘Researching Schools, Children and Childhoods’ on March 20, 2024.

Seminar/Conference Presentations (National / International)

International

Monica Chhabra presented a paper titled, ‘Relationship Between Leadership, Followership, Organisational Effectiveness and Organisational Culture: A Systematic Literature Review’ at the 3rd International Conference On ‘Corporate Governance And Sustainable Development: Reflecting New Perspectives in Emerging Economies and Around The Globe’ held between September 16-17, 2023.

Megha Jacob presented a paper as a Co-presenter and Chairperson titled, ‘Understanding the Behavioural Patterns and Management Styles Emanating from South Asia's shared yet Diverse Cultural Backdrop’ at the Online International Conference titled "Writing Each Other: Mutual Representations of South Asia and Japan in History, Literature and Philosophy" organised by the Soka University, Japan on November 25, 2023.

Maya John presented a paper titled ‘Rethinking Labour regulation and the nature of paid domestic work post ILO Convention 189’ at the International Workshop on "Rethinking Labour: Gender, Informality and Politics" organized at Azim Premji University, Bengaluru & ICAS: MP on January 9, 2024.

Renu Gupta presented a paper titled, ‘Gender Diversity in the Workforce lead to better Corporate Performance? A Study of top Large-cap, Mid-cap and Small-cap Companies in India’ at the International Conference on ‘India @ 2030: Third Largest Economy in the World’ organised by Jesus and Mary College on January 29, 2024.

Savita Rastogi presented a paper titled, ‘Towards Sustainable Bharat@2047: A Study of Consumer’s Perceptions & Preferences Towards Green Marketing in Selected Cities of India’ at the International Conference titled ‘Samridh Bharat: A Journey Towards Third Largest Economy’ at the India International Centre, Delhi on February 22, 2024.

National

Mahima Varma presented a paper titled, 'Gender Connotations in the Representation of Adoption in Bollywood Films: Reflections of Adoptive Families in India' at the National Conference on 'Sociology of Gender in India: Emerging Issues and Future Agenda' organised by the University of Hyderabad held between October 27-28, 2023.

Dolly V. Muanching presented a paper titled, 'Deciphering the Language of Food in Easterine Kire's A Terrible Matriarchy' at the National Conference titled 'Reimagining Northeast Writing and Narratives: Literature, Border, Ethnicity, and Cultural Imagination' at Jamia Millia Islamia, New Delhi held between November 9-11, 2023.

Sanghamitra presented a paper titled, 'Dyes and Pigments in Early Indian Textiles' at the Delhi History Congress, IIC, New Delhi held between February 5-6, 2024.

Amita Paliwal presented a paper titled, 'The Emotional World of Mughal Women: Depression, Rage and Resilience' at the Delhi History Congress held between February 4-6, 2024.

National/International MoUs Signed

MoU with St. Xavier's Palayamkottai, Tamil Nadu (National).

MoU with Patrician College, Chennai (National).

MoU with Nirmala College (National).

MoU with Jayaraj Annapackiam College for Women (National).

MoU with St. Aloysius College, Thrissur (National).

MoU with St Xavier's College, Jalukie, Nagaland (National).

MoU with St. Joseph's College for Women, Irinjyalikuda (National).

MoU with St Anne's College of Engineering and Technology, Tamil Nadu (National).

MoU with Jyoti Nivas College Autonomous, Bangalore (National).

MoU with Holy Cross College, Tiruchirapally, Tamil Nadu (National)

Other Inter-Institutional Collaboration

MoU with Chamber of Indian Micro Small and Medium Enterprises

MoU with Experiences Digital

MoU with HypedIn

MoU with Youth Foundation

MoU with Nikore Associates

MoU with MyDisha

MoU with Mitaso Enterprises

MoU with ENL Enterprises

MoU with Time Bazaar

MoU with Dream Girl Foundation

MoU with Refactor

MoU with Vishwa Yuvak Kendra

MoU with Dream Girl Project

MoU with DWF

MoU with GNK

MoU with IAHV

MoU with IGSSS

MoU with KSCF

MoU with LI, Bajgedha

MoU with NCPEDP

MoU with VYK

MoU with YWCA

Placement Details

Number of students placed: 72

Number of Companies visited for campus recruitment: 22

Extension and Outreach Activities

Jesus and Mary College organized several extension activities in the community to sensitize students towards community issues, aligned with our institution's vision of empowering our students to partner in the creation of a just, humane, and inclusive society. From April 2023 to March 2024, several activities were organized to bridge the gap between academia and society/ community.

Community Engagement Centre (CEC): The Community Engagement Center organizes an ongoing tailoring course which takes place in 6 batches, training 59 women from the nearby communities. The Centre organized and celebrated various special days like Women's Day, Menstrual Health & Hygiene Day, Yoga Day, and Azadi ka Amrit Mahotsav with these women. First aid training and a session on Women's Safety was also organized for the women. CEC organized various awareness sessions on Government schemes for the women at the Centre as well as at Sanjay Camp which is an urban slum. ABHA (Ayushman Bharat) Card-making Camp was organized for the migrant population of Sanjay Camp which they can use in medical emergencies at their native place. CEC also organized various online and offline sessions for NCWEB students on entry-level jobs, investment banking, UPSC, CV correction, preparing for interviews, cost accountancy, and stock & investment banking. NCWEB students also got the opportunity to go for industrial visits and attend life skills sessions by Barclays Bank. NCWEB students also got an opportunity to visit CSR exhibition at the Pragati Maidan, which was made possible by CEC. A talk by Dr. Kiran Bedi on Women: Agents of Social Transformation was also organized by CEC for JMC students and staff.

National Cadet Corps (NCC): On the occasion of National Safe Motherhood Day 2023, NCC Cadets from NCC-JMC have created posters to raise awareness about the need for care, medical check-ups, and health support to ensure safe motherhood. 3DGBn took the initiative to distribute fruits, pulses, and rice to the laborers working in the unit for renovation in handmade paper bags made by cadets of NCC-JMC on the International Labour Day, May 1, 2023. NCC-JMC, in collaboration with the National Tobacco Control Programme, and National Health Mission successfully conducted an inter-coy competition on 'WORLD NO TOBACCO DAY' on June 1, 2023. There were 2 events that took place simultaneously where there were 5 cadets from each Coy. The events were as follows:- 1) Best Action Plan on "Effective measures for tobacco control among the youth". 2) Poster Making on "World No Tobacco Day".

On June 14, 2023 NCC-JMC organized a Social Awareness Programme to encourage more and more people to donate blood since every tomorrow needs a blood donor today.

Jesus and Mary College Educational Program (JMCEP): Jesus and Mary College Educational Program consisting of 331 volunteers is one of the compulsory societies of Jesus and Mary College. With its motto of 'learning to help by helping to learn', the society plays a pivotal role in effectively tutoring students belonging to marginalized communities.

Project Naari Samarika, an initiative started in 2023 is aimed at empowering women through adult education. With a focus on literacy, the project mobilizes a team of over 20 committed volunteers who work tirelessly to uplift and educate marginalized women. Currently, the project serves a cohort of 50 women, providing them with necessary resources to enhance their knowledge and capabilities, ultimately fostering their socio-economic empowerment and contributing to their overall well-being. Tutoring classes for both JMCEP and Project Naari Samarika take place every day in the college premises. In both 2023 and 2024, Ramadan Donation Drives saw remarkable community support and engagement. Over a week, volunteers collected various items like juice boxes, chips, and water bottles, and over 200 food packets were donated to Blessings NGO in Jamia. In September 2023, a toy donation drive further enriched the lives of students. Additionally, candle, diya, and books donation drives were held in October and November 2023, resulting in the collection of more than 100 books for children's education. Our outreach also extended to a dog shelter, where volunteers donated dog food in November 2023. As part of Naari Samarika, a seminar in December 2023 on menstrual hygiene by Nine, empowered women through education and free product distribution. An intercollege collaboration with Miranda House in February 2024 was organized to engage learning sessions for children fostering mutual learning and growth. Furthermore, throughout the year, a holistic environment was created for the children by organizing weekly activities such as painting, storytelling, games, puzzles, and puppet shows, ensuring consistent enrichment and fulfilment.

National Service Scheme (NSS): National Service Scheme, Jesus and Mary College has been involved in a variety of outreach activities from April 1, 2023 to March 31, 2024. The outreach and extension activities carried out by NSS-JMC includes initiatives like Blood Donation Camps in collaboration with BloodConnect with over 60 donations. NSS-JMC also runs a Spoken English programme for women from underprivileged communities twice a week at Prabhat Tara. Volunteers from NSS-JMC also run awareness sessions like voter awareness sessions for the women. NSS-JMC has also been involved in pro-environmental initiatives including cleanliness drives both inside and outside the campus, plog runs, street plays, webinars on waste management, and even eco-brick making sessions that recycle single-use plastic to eco-bricks, in collaboration with Enactus-JMC. In this period, our volunteers have also initiated tree plantation drives, participated in Walk for life: a cancer awareness rally and also joined the Yamuna cleaning initiative in collaboration with Project Amrit.

All India Catholic University Federation (AICUF): All India Catholic University Federation (AICUF) is a movement of university students with a vision for a new and just society. In this academic year, with a total of 40 student members in the core team, AICUF has initiated several activities and events in this session to encourage holistic development of our members. Every year the students of AICUF are offered internship work at NGOs. This year we collaborated with 3 NGOs - Chetanalaya, Schumacher, and Pratyek. All these three organizations are continuously working towards the betterment of society especially looking forward to the problems related to backward sections of society as well as working on the educational and personality development of the underprivileged children. The students were required to teach underprivileged students or spend time with elderly people. Working with these NGOs has brought about a positive impact on the lives of the interns as well as children and the elderly.

Enactus JMC: The outreach activities undertaken by Enactus JMC in their three projects - Project Sugam, Project Dhara and Project Iffat. Enactus JMC signed an MOU with Andaz by Hyatt, Delhi on April 5, 2023 for the procurement of partially used soaps. This collaboration aims to reduce waste, improve hygiene, and build impactful relationships for a promising future. Enactus Jesus and Mary College organized a crowdfunding campaign called "afrAID no more" in support of Project Iffat. This initiative, spanning from February 14 to March 13, 2023, focused on empowering women affected by HIV/AIDS. Through the campaign, Enactus JMC aimed to secure resources necessary for sustaining and expanding impactful activities under Project Iffat. On April 21, 2023, Enactus JMC organized an eco-brick session for students from classes 6 to 8 on the occasion of Earth Day. The session aimed to teach about eco-bricks and recycling. Students received hands-on instruction on creating eco-bricks using clean, dry plastic bottles and waste, learning about optimal density ranges and identifying unsuitable plastic types. Enactus JMC collaborated with Delhi Police for Project Sugam's washroom construction near Kamla Market police station. The Eco Brick Session on September 25, 2023, at JMC Campus, a collaboration between Project Sugam, Enactus JMC, and NSS-JMC, raised awareness about plastic waste issues. Informative talks and live demonstrations engaged over 55 participants, promoting sustainable solutions.

The initiative of Project Dhara by Enactus JMC spanned four months from November 2023 to March 2024, focusing on paper recycling prototyping. The primary goal was to transform waste paper pulp into paper and utilise it for crafting various items such as diaries, journals, and paper bags.

Vocational Studies: The students of the B.Voc. department organized a "Christmas Gift Distribution Drive" to spread joy and cheer during the festive season. The initiative aimed to bring smiles to the faces of underprivileged individuals in the community. With heartfelt generosity, the students collected and distributed gifts to those in need, embodying the spirit of giving. The event fostered a sense of unity and compassion among the students, highlighting the importance of sharing kindness and goodwill. Overall, the Christmas Gifts Distribution drive was a heart-warming success, leaving a positive impact on both the recipients and the organizers.

Library Development

The library acquired 770 books during 2023-2024. Total 67 print Journals has been subscribed during the year out of which 50 are National Journals and 17 are foreign Journals. The total collection of the library books has been augmented to 57224 books. Library also enrolled for N-LIST (INFLIBNET) Programme during the year where user can easily access 6000 e- journals and more than 2 Lac e -books.

Jesus and Mary College Library functioned 310 days in the year 2023-2024, five days a week from 8:00 a.m. to 4:30 p.m. All the library sections including reference section, weekly sections, issue counter and the reading- halls were kept open on all working days. The library serves the students and the staff of the College. Library users can access the previous and current year syllabus/question papers under library page on college website. Interactive projector was used to explain the power point presentation in the orientation programme at the beginning of the academic session 2023-2024 to introduced students about the library services and facilities and organised one session for explanation of OPAC (On Line Public Access) facility and also provide proper guidance to the students so that they can easily search the details of the library books Author wise, Title wise, subject wise or any key word wise.

A new wiring/networking for library local area networking (LAN) is also done for the better access and high speed of Wi-Fi for using library e-resources. A stock verification and weeding out of books was also done successfully during this session. A copy of Indian Constitution (received from Delhi Library Board) is one of the major attractions for library users placed in the prominent place of the library hall.

Faculty Strength

Senior Professor/Professor/Director: 08

Associate Professor: 30

Assistant Professor: 84

Ad-hoc faculty: 02

Guest: 16

Financial Allocation and Utilization

Grants allocated: ₹ 44.31 crore

Grants utilized: ₹ 52.30 crore

KALINDI COLLEGE

Honours/Distinctions

Faculty

Prof. Meena Charanda (Principal) was honoured with International Sanskriti Award for her outstanding achievements and contribution in the field of academics and social work by Socrates social Research University, at India International centre, Delhi on March 30, 2024. Dr. Rajni chaired the session titled “Sustainable Growth and Development through Emerging Technology & Innovations in Today’s Business Era”, at International Conference on Sustainable Growth and Development through Emerging Technology & Innovations (ICSGD 2024) and Award Ceremony organized by Research Education Solutions (Registered as Micro Enterprise with MSME, Government of India) in association with NIIS Institute of Business Administration, India. Dr. Usha Kumari Pathak and Dr. Geeta Kumari received certificate of Honour in the field of “Urban Development” by Mrs. Rosalia Arteaga, Former President of Ecuador in the Indo-Ecuador Intellectual Dialogue2024 held on 4th of February, 2024 at the India International Center,

New Delhi, India. Dr. Manju Sharma was honoured with Dr. Sahib Singh Shikshak Samman 2023-24. Dr. Manisha Tomar received Rashtriya Ekta Puraskar by commission for other Backward classes, Govt. of NCT of Delhi, in constitution club of India, Delhi to celebrate 76th Independence Day.

Students

Bhumi of B.Com. III Year received Nargis Sunil Dutt Girl of the Year For Maximum number of Prizes.

Kashish Arora of B.A. (Programme) III Year received Principal Shiva Dua Memorial Prize For Best Student of Social Science.

Diksha Kajla of B.A. (H) Political Science III Year received Adarsh Kumari Jain Memorial Prize For Debate.

Sanya of B.A. (Programme) III Year received Asha Memorial Prize Student as deemed fit.

Muskan of B.Sc. (H) Mathematics III Year received Mrs. Raj Kumari Beri Prize Help Poor Student.

Publications

Scopus indexed journals

Rana, P., Saini, K. M., Kaushik, B., Solanki, K., Dixit, R., & Sharma, R. K. (2023). Unleashing the photocatalytic potential of a noble-metal-free heteroleptic copper complex-based nanomaterial for an enhanced aza-Henry reaction. *Nanoscale*, 15(34), 14007-14017.

Verma, D. (2023). PROTEIN KINASES AS DRUG TARGET AGAINST TRYPA NOSOMA BRUCEI. *Journal of Advanced Scientific Research*, 14(04), 1-8.

UGC Care-list indexed journals

TOMAR, M., CHAUHAN, R. & CHARANDA, M. (2023). MEDIA AND DEMOCRACY-FADING BOUNDARIES. *International Research Journal of Management Sociology Humanities*, 14(8), 56-61.

Research

Prof. Sangita Dhal, ICSSR, Empowering women through capacity building: Role of common service centres in rural Odisha, ₹ 4.75 lakh.

Dr. Varsha Singh, DST- SERB, Functional interaction between ovarian catecholamine and steroids: effect of ovarian denervation in the catfish *Heteropneustes fossilis*, ₹ 19.8 lakh.

Seminars Organized

Seminar titled “Nanostructures Oxides as Electrode Material for High Performance Electrochemical Capacitors” by Dr. Atul K.K, Director and Founder Ekagr IAS, on March 15, 2024.

Seminar titled “Diverse career paths within economics” by Dr. Shruti Jain, Student Mentor and Career Counsellor, College, on October 4, 2024.

Seminar titled “Career Counselling in collaboration with Khan Study Group on the topic - Demystifying” by Ms. Karuna Mishra, Geography Faculty, KSGIAS, College, on March 18, 2024.

Seminar/Conference Presentations (National / International)

International

Yogesh Kumar Sharma presented a paper titled “Nanostructures Oxides as Electrode Material for High Performance Electrochemical Capacitors” at International Conference on Crossroads of Chemistry, Biology & Atmospheric Environment: A Modern Prospective (ICCB), OP 24, University of Delhi, February 26-28, 2024.

Rajni presented a research paper titled “Study on Examining how HR Management Practices (HRMP) affect Knowledge Management (KM) in a few Indian Service Sector Industries” at STRIDE International Conference 2023 Organized by school of Management and Liberal Studies, The NorthCap University Gurugram, on December 16, 2023.

Pathak. U. K. “Understanding Climate Change's Effects On Water Availability For Sustainable Farming In Ranchi District, Jharkhand” International conference on Climate Change, Disaster Management, and Environmental Sustainability, organised by Department of Geography, Jamia Millia Islamia, New Delhi on February 21-22, 2024.

Varsha presented an oral talk on “Generation and Enhancement of Currents and Magnetic Fields in a Two Dimensional Quantum Ring Using Short Electromagnetic Pulses” at 4th International Conference on Materials Science & Nanotechnology organized by Yuktan Technologies in Valencia, Spain (in hybrid mode) from October 23-27, 2023.

Sangeeta Dhal presented a paper titled “Sustainable Development Goals and Women: Role of Critical Intervention of Technology and Innovation in Governance” in International Annual Conference 2023, on ‘Territories of Technology, Innovation and Development’, Dublin City University, DSA Ireland, from October 25-26, 2023.

Manisha Tomar presented a paper titled “Shiksha Mein Patrakarita Evam Jan Sanchar Ki Prasangikta” in Two-Day International seminar on “The relevance of Diverse Subjects in Education” organised by S.S.P.P.D.P.G College, Mirzapur, Uttar Pradesh, from December 31, 2022 to January 1, 2023.

Manisha Tomar presented a paper titled “Shiksha Mein Patrakarita Evam Jan Sanchar Ki Prasangikta” in Two-Day International seminar on The relevance of Diverse Subjects in Education, organised by S.S.P.P.D.P.G College, Mirzapur, Uttar Pradesh, from December 31, 2022 to January 1, 2023.

National

Seema Gupta presented an oral presentation on “Addressing Sector-wise Gender Diversity in Corporates-a way towards Atam-Nirbhar Bharat” in National seminar on “Women in decision making roles in corporates” organized by Non Collegiate Women’s Education Board on November 3, 2023.

Raksha Geeta presented a paper entitled “Bhartiya Snskriti Or Vartmaan Shiksha Ke Srokaar” in national seminar on “Bharat Manthan” organised by Indrprasth Adhyan Kendr held at Sammelan Kendr Delhi Vishvidyalaya North Campus, on April 29, 2023.

Aahana Chopra presented a paper titled “Increasing misuse of AI through deepfake technology in India” in National Seminar on “Emergence of Bharat as Vishwa Guru, Role of Education, Media and Artificial Intelligence”, sponsored by ICSSR, organised by VSJMC, Vivekanada Institute of Professional Studies, Pitampura, New Delhi, March 20-21, 2024.

National/International MoUs Signed

MoU with Erasmus+Department of Geography, University of Oradea, Romania (International)

MoU with Maharaja Agrasen Institute of Management Studies (National)

MoU with The International Institute of Knowledge Management (Pvt) Ltd. (TIKM) (International)

Other Inter-Institutional Collaboration

Internal Quality Assurance Cell organized a talk on the occasion of Teachers Day, titled "गुरुवे नमः," in collaboration with the Padmavibhushan Aditya Jha Memorial Trust on September 5, 2023. The IQAC also collaborated with the Department of Botany, Kalindi College, the Department of Anthropology, University of Delhi, the Indian Council of Medical Research (ICMR), AIIMS, and the National Thalassemia Welfare Society to organize a "Health Awareness cum Screening Camp among Young Adults of Delhi and NCR". The camp featured two speakers who delivered talks on the topic "Awareness, screening, and counselling are key to reducing the burden of genetic and chronic diseases" followed by the collection of blood samples from volunteers who had given their consent.

Under the Convenorship of Dr. P.P. Saini the college has maintained medical, health care, and fitness facilities. The college provides basic medical facilities for all students and staff members. Workshops were organized on May 6, 2023 and May 10, 2023, in collaboration with Strawberry Solutions Company under the 'National Health Mission' to promote menstrual hygiene. Free sanitary pads were distributed to the students. An Awareness Program on Digital Mission (a flagship scheme of the Government of India) and Ayushman Bharat Health Account (ABHA) was organized in collaboration with our NSS on March 19, 2024.

The Disaster Management Cell, collaborated with the Disaster Resilient and Research Foundation (DRRF) to organize a one-day workshop on the topic "Utilization of Geospatial Information and Technology in Disaster Risk Management." Disaster Management Cell also undertook a community outreach program called "Building Resilience: Disaster and Fire Awareness Program".

A workshop in collaboration with the Directorate of Training, Govt. of NCT of Delhi, on the Prevention of Sexual Harassment of Women at Workplace held on December 5, 2023 highlighted legal aspects. Events like a poster-making competition held on March 18, 2024 were followed by a Street Play performance by RAQs, the dramatics society of Kalindi College, based on the theme "Prevention of Sexual Harassment at Workplace: 'Kisi ko batana mat'".

Placement Details

Number of students placed: 9

Number of Companies visited for campus recruitment: 2

Extension and Outreach Activities

The Social Responsibility Cell of Kalindi College serves as a beacon of social change and empowerment. Committed to the social empowerment of underprivileged communities, the Social Responsibility Cell endeavours to uplift marginalized sections of society through various initiatives and projects. Under the umbrella of SRC, Enactus, a social entrepreneurship society, and CDF, a society advocating for social

change, collaborate synergistically, leveraging their respective strengths to drive impactful initiatives that bring about positive social change. Together, they embody the spirit of social responsibility and serve as catalysts for transformation.

Enactus Kalindi: Established in 2017 under Social Responsibility Cell, Enactus Kalindi is dedicated to addressing pressing social issues that undermine the fabric of our nation, with a primary focus on uplifting marginalized communities through means of innovative business ideas. Enactus Kalindi currently runs 3 projects- Project Rehmat, aimed to empower manual scavengers and eradicate the inhumane practice of manual scavenging from our country; Project Weran, aimed to address the issue of agricultural waste, particularly in the form of discarded fruits and vegetables; and Project Rahee, focused on the textile waste crisis brought about by fast fashion, which results in millions of tonnes of textile waste accumulating each year. In session 2023-2024, we continued our work of making social change through various activities and events:

Project Rehmat: We introduced Shama, a line of eco-friendly candles made from soy wax, offering a sustainable alternative to traditional petroleum-based candles and are available in various scents. We also undertook product improvement and innovation in our soap production, utilizing the melt and pour method to introduce new flavours such as neem, coffee, and marigold, expanding our reach and impact.

Project Weran: Building upon our commitment to reducing agricultural waste, we introduced orange candies and banana chips. These are preservative and additive-free, offering consumers a healthier snack option while simultaneously addressing the issue of food waste.

Project Rahee: We have introduced sling bags made from repurposed textile waste to our pre-existing line of Punah products which include scrunchies, tote bags and pouches. These stylish and eco-friendly bags not only provide a solution to the problem of waste but also promote conscious consumerism. Furthermore, we conducted upskilling training sessions in tailoring for the partner community of wives of rickshaw pullers under Project Rahee, empowering them with valuable skills and opportunities for economic independence.

In addition to our project initiatives, we organized the maiden fest of Enactus Kalindi, Udyamita on February 29 and March 1. It featured a diverse range of events aimed at promoting sustainability and social entrepreneurship. From case study competitions to a fashion show highlighting sustainable fashion, our fest provided a platform for dialogue, innovation, and inspiration.

Connecting Dreams Foundation: CDF Kalindi, a dedicated society advocating for social change, has been actively involved in various social causes over the years. Anchored by the ethos of vocalizing for change, our projects, Kilkari, aiming to combat alarming dropout rates; Inayaat, a multifaceted initiative aimed at empowering women and addressing hunger; and Project Inara, focusing on prioritizing mental well-being, try to bring about meaningful impact in the lives of underprivileged communities.

Project Kilkari: Collaborating with Scope for Change, an NGO, offline classes were initiated on Saturdays and Sundays. The curriculum aimed to provide educational enrichment to underprivileged children. Collaboration with MyMenia Foundation further expanded our reach. Additionally, the session saw the successful execution of our annual socio-cultural fest "Meraki 24," conducted in collaboration with Ritva Kalindi, enriching our engagement with the community. Ekagra IAS Seminars were organized, offering insights and guidance to aspiring civil service candidates.

Project Inayaat: A field visit to Katthputli Colony facilitated understanding of the challenges faced by underprivileged women. Subsequently, a mass food donation drive was organized for underprivileged

children, complemented by a one-week cloth donation drive. The donated clothes were repurposed into tote bags by women of Father House NGO, providing them with employment opportunities. A food donation drive during Holi celebrations further exemplified our commitment to addressing hunger and fostering community engagement.

Project Inara: Project Inara, focuses on prioritizing mental well-being and creating supportive spaces. An online interactive session on "Mental Health Issues" was conducted with Dr. Vibhuti Mehta, assistant professor of psychology at Gargi College. This session aligned with Inara's mission to destigmatize mental health problems and encourage seeking professional help when needed.

As we reflect on the accomplishments of the 2023-2024 session, the Social Responsibility Cell remains steadfast in its commitment to social change and community empowerment. Through collaborative efforts and innovative initiatives, we are committed to create a more inclusive and equitable society.

Library Development

The library resources were enhanced during the year 2023-24 and the total collection of the library reached up to 89,037 books including Book Bank and Student Aided Fund books. The library users have been able to enlighten themselves by going through the newly added books. At present the library is subscribing to 60 magazines/journals and 13 newspapers in English and Hindi languages in different areas of interest for its readers. The library has a web centre for access to e-resources, a separate reading room for consultation purposes and photocopy facility for the students and staff. The remote login access of e-resources through NList, DELNET and DU E-Library is also provided by the library. A large number of Open Access Print Journals, E Books and E Journals, previous year question papers and links for useful educational resources are available on the college website. Journal Content Alert Service is also provided to faculty members through email and is uploaded on the college website also. Library has organized a department wise Library User education program for First Year Students of the college.

Two Information Kiosks have been added to the library. As part of its commitment to sustainability, the library has started procuring recycled materials instead of using library wastepaper. Furthermore, the library offers e-books for print-disabled students through DU Braille Library and Sugamaya Pustakalaya. Screen reading software, NVDA, is also available for use in the library. A new Reading Room for teachers and students was inaugurated by Dean, Prof. Balaram Pani and Chairperson GB, Prof. Manju Mukul Kamble on April 8, 2024.

Faculty Strength

Senior Professor/Professor/Director: 14

Associate Professor: 46

Assistant Professor: 102

Ad-hoc faculty: 27

Guest: 23

Financial Allocation and Utilization

Grants allocated: ₹ 68.31 crore

Grants utilized: ₹ 69.66 crore

KAMLA NEHRU COLLEGE

Major Activities and Achievements

A phenomenal 63 appointments have been made on regular basis to the post of Assistant Professor in 13 departments across all categories! The Equal Opportunity Cell and Enabling Unit of Kamala Nehru College in collaboration with the Haryana Welfare Society for Persons with Speech and Hearing Impairment, conducted a three-month Basic Indian Sign Language Training Program from April 15- July 15, 2023. Certificate Programmes on 'Basic of RS GIS and GNSS' and 'Geographical Information System' were conducted from August 28 -November 17, 2023, and October 9-27, 2023, respectively, by the Geography Department, Kamala Nehru College, which is a nodal centre for the IIRS Outreach Programme. These are skill-enhancing, job-oriented courses that seek to enhance employability. Kamala Nehru College was one of the 16 colleges across the University shortlisted/ selected to put up a stall showcasing its history, journey and achievements over 60 years since its inception, in the Exhibition mounted by the University of Delhi as part of the Valedictory Session of the Centennial celebrations on June 30, 2023, with the Hon'ble Prime Minister as the Chief Guest.

Honours/Distinctions

Faculty

Dr Carmel Christy (Journalism) has secured an academic post of Postdoctoral Research Associate at the Human Rights Institute, University of Connecticut, USA.

Publications

Scopus indexed journals

Yadav, M., Gupta, R., Nair, K., Mishra, M., & Tawk, C. (2023). Sustainability Unleashed: Pioneering Carbon Removal Solutions for a Net-Zero Future. *Journal for ReAttach Therapy and Developmental Diversities*, 6(9s), 946-961.

UGC Care-list indexed journals

Basu, C. P., & Basu, R. (2023). The role of cooperatives in Women empowerment: A critical review. *The Management Accountant Journal*, 19-21.

Malhotra, N., & Sen, S. (2023). SPATIO-TEMPORAL VARIATION OF AIR POLLUTION IN DELHI– A FOCUS ON RESPIRATORY DISEASES.

Dutt, S. (2014). South Asia. In *Handbook of Governance and Security* (pp. 255-272). Edward Elgar Publishing.

Gautam, P., & Kaur, C. (2023). A Novel Iterative Scheme To Approximate the Fixed Points of Zamfirescu Operator and Generalized Non-Expansive Map with an Application. *Lobachevskii Journal of Mathematics*, 44(4), 1316-1331.

Gautam, P., Kumar, S., Verma, S., & Gupta, G. (2022). Existence of common fixed point in Kannan F-contractive mappings in quasi-partial b-metric space with an application. *Fixed Point Theory and Algorithms for Sciences and Engineering*, 2022(1), 23.

Gautam, P., Kumar, S., Verma, S., & Gulati, S. (2024). On enriched Hardy–Rogers contractions in Banach space via Krasnoselskij iteration with an application. *The Journal of Analysis*, 32(2), 1145-1160.

Patents Filed/Granted

01 (Filled) and Indian Patent; Title: ‘IOT Based Tiffin Service and Monitoring System’.

Seminars Organized

Seminar entitled, ‘Macroeconomics’ by Professor Jayan Jose Thomas, IIT, Delhi on March 3, 2023.

Seminar entitled, ‘Data Analytics and Artificial Intelligence’ by Mr Rohit Pahwa, Head, DUCAT, IT Training School on October 12, 2023.

Seminar entitled, ‘Amrit Kaal Vimarsha: Viksit Bharat@2047/Education, NEP and Viksit Bharat.’ By Prof. Shashikala Wanjari, Vice Chancellor, NIEPA in collaboration with ICSSR, on October 13, 2023.

Seminar entitled, ‘Academic Bank of Credits: Challenges and Strategies’ by Prof. Arbind Kumar Jha, Professor, IGNOU on February 21, 2024.

Seminar entitled, ‘Employing Self-Regulated Learning Skills in Higher Education’ by Dr. Sung, An expert in self-regulated learning and a certified teacher on October 28, 2023.

Seminar/Conference Presentations (National / International)

International

Gaganjot Kaur presented a paper titled, ‘The Challenge of Menstrual Shame in South-Asian Cultures: A Phenomenological Study’ at Women and Their Body, an international Conference organized by Centre for History of Women Philosophers and Scientists held at Paderborn University, Germany from March 16-17, 2023.

M V Shobhana Warriar presented a paper titled, ‘Minimum Wages in India during the 1st Half of the 20th Century’ at the ESSHC in Gothenburg, April 12-15, 2023.

National

Renu Bali presented a paper titled ‘Basics of Nature Based Solutions for Disaster Risk Reduction’ in the 45th International Conference of the National Association of Geographers (NAGI) on the focal theme Environment, Development and Sustainability: The Exigency of Geography for a Resilient Future organised by Department of Geography, Savitribhai Phule Pune University, Pune held between December 14-16, 2023.

Gaganjot Kaur presented a paper titled, ‘Flesh as Nature in Merleau-Ponty’s Ontology’ at the 15-day workshop on Pre-Being and Time Phenomenology of Heidegger organised by the Centre for Phenomenological Studies (Puducherry), at Loyola College of Social Sciences, Sreekariyam (Thiruvananthapuram, Kerala) on November 27, 2023.

Vinita Malik presented a paper titled, ‘Gleanings from the Purāṇas on the Existence of Alternative Sexualities’ in the Warangal Session of Indian History Congress held between December 28-30, 2023.

Renu Bali presented a paper titled, 'Status and Determinants of Survival of Girl Child in Rural Haryana' at the 22nd Annual Conference of the Indian Association of Social Science Institutions (IASSI), organised by the Centre for Economic and Social Studies (CESS), Hyderabad held from November 2-4, 2023.

Archana Ojha presented a paper titled 'The Bhakti of Mira: From a Gendered Perspective' at the National Conference on Historicity of Composite Culture in Indian Society at Aggarwal College Ballabgarh, Haryana on May 15, 2023.

Minakshi Sethy presented a paper titled, 'Sri Chaitanya Mahaprabhu: A Pioneer of Bengal Vaisnavism' organized by Institute for Science and Spirituality in collaboration with the School of Sanskrit and Indic Studies, JNU, New Delhi.

Maitreyee Kumari presented a paper titled, 'Vishvashanti aur Kalyankamana' in a Two-day National Vedvijan Sammelan 2023 organised by Vishvaved Parishad, Parmarth Niketan and Bhartiya Krishi Anushandhan Parishad (Ministry of Agriculture) Delhi held between April 29-30, 2023.

Sanjay Muttoo was invited by the Heritage Trust, Baroda to present 'Lucknow in Letters', a multimedia presentation in Vadodara.

Other Inter-Institutional Collaboration

KNC has partnered with Bottles for Change Programme, CSR, Bisleri International Private Ltd. and a 'Letter of Association' has been signed with college whereby the college will segregate plastic waste which will be recycled under the Bottles for Change Programme.

The Commerce Department, Kamala Nehru College joined hands with the Department of Commerce, Delhi School of Economics, University of Delhi and World Constitution and Parliament Association to organise a five-day program on 'World Law Prospects: Emerging World Law and the G20' which saw experts from around the world deliberate on global laws.

Placement Details

Number of students placed: 86

Number of Companies visited for campus recruitment: 30

Extension and Outreach Activities

We endeavour to make our students sensitive to issues that concern the community at large. The outreach programmes of the, NCC, NSS, NSO, Consumer Club, Green Beans, and the Women's Development Cell of the College bear testimony to this.

G20 and KNC: Kamala Nehru College enthusiastically participated in the events organized by the University of Delhi to mark India's prestigious Presidency of G20 in 2023. 37 students were shortlisted as volunteers for the G20 Summit after a rigorous process of selection. KNC was the supporting institution for G20 Indo-German Symposium and Cultural Extravaganza organised by the Culture Council, University of Delhi in association with PGDAV (Eve) College on Oct 31, 2023. KNC put up an exhibition on Indo-German thinkers and members of Nupur, the Indian Classical and Folk Dance Society of KNC presented an enthralling Chhau performance on the occasion. 30 students of the College participated in this G20 event of Delhi University. On September 26, 2023 around 50 students, shortlisted on the basis of academic

performance, along with the IQAC Convener and the Principal, participated in the G20 University Connect Finale which took place at the newly inaugurated Bharat Mandapam. It entailed an interaction with the Hon'ble Prime Minister and was a truly enriching experience for all participants. NCC Six of our cadets actively participated in the magnificent Flag Hoisting Ceremony conducted at the Red Fort in commemoration of India's 77th Independence Day. CPL Sejal Sharma earned a prominent spot among the 32 SWs All India Guard of Honour contingent in the prestigious Republic Day Parade, where she bestowed eight salutes to esteemed VVIPs. KNC NCC also made for an impressive sight with cadets Priyanka, Monika, and Mansi being notably positioned in the front line at the Chief Minister's Rally held in Delhi. Cadet Sneha's role as the right marker of the front line exemplified her precision and coordination in ensuring the group's synchronization and alignment during the Rally. NSS KNC has organized various drives and initiatives ranging from cleanliness and plantation drives, seminar on cancer awareness, blood donation campaign, National Unity Day campaign and the annual fest, Aarambh, which incorporated the research paper on 'Rakht Daan: The Gift of Life'.

Green Beans, the Environment Club of the College successfully conducted a Plantation Drive in the College campus followed by the inauguration of Mission GreenScan during Van Mahotsav week in July 2023. Mission GreenScan is a QR Code Scanner Initiative under which QR Code Scanners, entirely designed by the Green Beans Society were installed along with the plants in the college campus. It includes the details of the particular plant under the scanner. The purpose and aim of the initiative lie in gaining knowledge and ensuring protection of the flora. In the month of October, amidst festivities, the Society organized a three-day Clothing Donation Drive, 'Sustainable and Charitable' in the College campus in collaboration with Umeed Foundation, a non-profit organization, successfully collecting more than 700 clothing articles, which were distributed in the slum areas of Jadamba Camp, Malviya Nagar. The members of the society also installed bird and animal feeders across the campus made out of waste material generated on the college premises. As part of the long-term initiative to spread awareness to reduce plastic pollution, Green Beans initiated a week-long 'Say No To Single Use Plastic' campaign.

SPORTS: Priyanka Mohapatra secured Gold Medal in Senior Female under 62kg Weight Category in the 36th Odisha State Taekwondo Championship held in August 2023. Kriti Chowhan of First Year B.A. Program secured T5 position in Leg 8 and T11 in Leg 9 in Hero Women's Indian Open Professional Golf Tournament in June 2023. The Football team of Kamala Nehru College secured first position in many intercollege football tournaments organized in Delhi and NCR. With a remarkable score of 579/600, CPL Renu secured the 5th position in the 50m rifle peep sight prone junior women individual event at the All India GV Mavlankar Sports Shooting Championship held in August- September, 2023.

Women Development Cell: The volunteers of WDC along with the core team under Project Surkh organized a sanitary napkin donation drive to the slum areas of JLN and CGO cluster areas. On the occasion of International Day of Girl Child, the WDC organized a self-defence workshop with the Delhi Police. The Cell also organized a "clothes donation drive" in partnership with the NGO 'Nanhe Pakshi'.

Library Development

The library has around 106371 books and 70 journals/periodicals. The institution possesses a well-stocked Library which spreads over three floors of an impressive building. It is well-furnished and Wi-Fi enabled with a seating capacity of around 250 users. The College Library is fully automated (through NETTLIB Software 3.0.3 version) which is connected with one server and thirteen clients of the Local Area Network. An air-conditioned well-equipped Research Room for faculty is available on the first floor with 16 laptops

and two desktops with one Scanner/photocopier cum printer to facilitate the Research output of the faculty. The second floor is dedicated to the e- library, which has 100 MBPS internet bandwidth to access e-journals through INFLIBNET, N-LIST, DU Remote Access. INFLIBNET membership is open to students and faculty for the access of e-resources and e-journals through N-List e-resources. This can be accessed by the QR barcode of the college. Faculty members can access inter-library loan facilities which enable them to get any book they require from any library in the country. Web OPAC services are accessible by remote access for faculty, MA, MPhil and PhD students. Students can access previous years question papers and syllabi from 1966 onwards through the QR bar code provided by the college library. The library also owns the Urkund Plagiarism Checker to check plagiarism of the research documents. An E-Resources Centre has been set up in the library with one server and six users. The library has an audio-visual section with 771 DVDs and 421 CDs in the Teachers' reading/research room, and all have been barcoded. The library ensures the purchase of the latest edition of books/publications by accessing and cross-checking various websites, catalogues, book reviews and bibliographies and consulting those publishers who are enrolled by DULS. The library staff is well-trained, having specialized knowledge of using NETTLIB software which has been in use since 2002. The library staff provides relevant information to the differently abled students and faculty. The material required by the physically challenged is made available at their desk and on there is a provision for a separate table for them for reading in the library office room. The library has 62 Braille Books and 48 CDs to facilitate the visually challenged students and faculty members. JAWS enabled computers with scanners are accessible for users. Two units of Angel Fully Talking Digital Pocket Daisy Player cum e-book, Reader cum MP3 Player cum Radio cum voice Recorder are available in the library for visually impaired students and staff members.

Faculty Strength

Senior Professor/Professor/Director: 10

Associate Professor: 56

Assistant Professor: 81

Ad-hoc faculty: 04

Guest: 11

Financial Allocation and Utilization

Grants allocated: ₹ 6431.04 crore

Grants utilised: ₹ 6266.32 crore

KESHAV MAHAVIDYALAYA

Major Activities and Achievements

Keshav Mahavidyalaya has received an "A" grade accreditation from the National Assessment and Accreditation Council for its second cycle in 2022. The college has also been recognized as one of the top 100 colleges in India by the National Institute Ranking Framework (NIRF), MHRD, Govt. of India, ranking at the 84th position. Additionally, India Today, which conducts prestigious college ranking surveys in India,

has named Keshav Mahavidyalaya one of the top "Ten Emerging Colleges" in the country, based on a study of around forty thousand colleges, in its recent issue.

Honours/Distinctions

Faculty

Dr. Anita Mendiratta was awarded with Ph. D. degree from Department of Management Studies, Indian Institute of Technology, Delhi on August 12, 2023.

Dr. Ashutosh Singh was awarded with Ph. D. degree from Dr. A.P.J Abdul Kalam Technical University, Lucknow, Uttar Pradesh on December 26, 2023.

Dr. Niloy Sarkar was awarded with Ph. D. degree from the University of Delhi on February 24, 2024.

Dr. Nikki Choudhary was awarded with Ph. D. degree from CSIR-National Physical Laboratory on March 4, 2024.

Dr. Prama Vishnoi was awarded with Ph. D. degree from Faculty of Management Studies, University of Delhi on February 24, 2024.

Prof. Vinita Jindal has been recognized as an external supervisor for guiding PhD students at RMIT University, Australia. She is, currently, guiding one student in collaboration with Prof. James Harland from RMIT Australia.

Students

Kanika Vats, B.Sc. (Hons) Mathematics, III year; Sanya Jain, B.Sc. (Pass) Mathematical Sciences, II year; and Sachin Srivastava, B.Sc. (Hons) Physics, I year have achieved the highest marks across all courses in the college in the academic year 2022-23.

Publications

Scopus Indexed Journals

Arora, P., Saini, N., Meitei, A. J., Arora, H. & Goswami, A. (2023). Assessing asset quality using bank specific and macro linkages of non-performing assets: case of public sector banks in India. *International Journal of Indian Culture and Business Management*, 2(29), 151-167.

Arora, R. & Jaggi, C. K. (2023). An aspect of bilevel interval linear fractional transportation problem with disparate fows: a fuzzy programming approach. *International Journal of Systems Assurance Engineering and Management*. 6(14), 2276-2288.

Bedi, P., Dua, A. & Jindal, V. (2023). FIHIM: a framework for information hiding in IPv6 using micro-protocols. *International Journal of Information Technology*, 511, 45311.

Bedi, P., Jindal, V. & Dua, A. (2023). SPYIPv6: Locating Covert Data in One or a Combination of IPv6 Header Field(s). *IEEE Access*, 11, 103486-103501

Garg, S., Jindal, V., Bhatia, H., Johari, R. & Gupta, S. (2023). Community oriented socio-behavioural Penta-Plicative Cipher Technique. *Egyptian Informatics Journal*, 24(1), 71-80.

Goyal, A. & Kashyap, I. (2023). Comprehensive Analysis of Topic Models for Short and Long Text Data. *International Journal of Advanced Computer Science and Applications (IJACSA)*. 12(14), 249-259.

Gupta, B., Sharma, R., Bansal, R., Soni, G.K., Negi, P. & Purdhani, P. (2023). An Adaptive System for Predicting Student Attentiveness in Online Classrooms. *Indonesian Journal of Electrical Engineering and Computer Science*, 31(2), 1136-1146.

Gupta, N., Jindal, V. & Bedi, P. A. (2023). Survey on Intrusion Detection and Prevention Systems. *SN Computer Science*, 4(5), 439.

Gupta, R. & Arora, P. (2023). Determinants of exit options of venture capitalists: evidence from India. *Journal of Indian Business Research*, 3(15), 403-430.

Gupta, T. B. & Bedi, R. P. (2023). Empowering reciprocal recommender system using contextual bandits and argumentation- based explanations. *World Wide Web*, 1(26), 2969-3000.

Khurana, P., Gupta, B. & Bedi, R. P. (2024). Session-aware Recommender System using Double Deep Reinforcement Learning. *Journal of Intelligent Information Systems*, 62, 403-429.

Mendiratta, A., Singh, S. & Singh, S. (2023). The Impact of Corporate Social Irresponsibility Media Coverage on Firm Performance. *Journal of Advances in Management Research*. 21(1), <https://doi.org/10.1108/JAMR-08-2022-0170>.

Mendiratta, A., Singh, S., Yadav, S. S. & Mahajan, A. (2023). Bibliometric and Topic Modeling Analysis of Corporate Social Irresponsibility. *Global Journal of Flexible Systems Management*. 24, 319-339.

Mendiratta, A., Singh, S., Yadav, S. S. & Mahajan, A. (2023). Controversies and Firm Performance in India: The Moderating Impact of Government Effectiveness. *Global Business Review*. <https://doi.org/10.1177/09721509231151490>.

Rai, K. R., Singh, A., Srivastva, R. & Kumar, G. (2023). Fetal ECG Arrhythmia Detection Based on DensNet Transfer Learning. *Frontiers Biomed Technology*, 4(10), 41-46.

Sehgal, P., Bansal, R. & Singh, P. (2023). A wavelet based statistical technique for Dental Caries severity classification using Fuzzy Feature Selection. *Journal of Theoretical and Applied Information Technology*, 16(101), 6379-6391.

Sharma, N. (2023). Next normal for business post pandemics: COVID-19. *International Journal of Technology Management & Sustainable Development*. 22(1), 21-34.

Sharma, R., Deol, S., Kaushish, U., Pandey, P. & Maurya, V. (2023). DWAEF: A Deep Weighted Average Ensemble Framework Harnessing Novel Indicators for Sarcasm Detection. *Data Science*, 6, 17-44.

Singh, J., Tennyson, J., Longiany, G. & Korpai, S. (2024). R-matrix calculation of electron collisions with the ICl molecule. *Chemical Physics*, 580, 112208

Thukral, A., Dhiman, S., Meher, R., Bedi P. (2023). Knowledge graph enrichment from clinical narratives using NLP, NER, and biomedical ontologies for health-care applications. *International Journal of Information Technology*, 15, 53-65.

UGC Care-list Indexed Journals

Korpai, S., Aggarwal, A., Arora, A. K., Anand, J., Verma, M., & Haridas, D. (2023). Algorithm based determination of the Planck's constant. *Physics Education*, 58(4), 045003.

Patents Filed/Granted

Patent entitled, 'Implementing Blockchain Technology in Automated Teller Machine (ATM) based Electronic Voting Machine'.

Seminars Organized

Mr. Rajeev Khandelwal, Global Delivery and Practice Head - Cyber Security, Tata Advanced Systems, Delhi, Career opportunities in Cyber Security, October 19, 2023.

Seminar/Conference Presentations (National / International)

International

Chetna Dang presented a paper entitled 'Long-term Meteorology - Adjusted and unadjusted trends of PM_{2.5} using the Air GAM Model Over Delhi, 2007–2022' at the International Conference on the theme WIDE.OPEN.SCIENCE in the session "A44B: Air Quality Trends and Challenges in Urban Area IV Oral organized in an online mode by American Geophysical Union (AGU) Advancing Earth and Space Science, San Francisco, CA, USA on December 14, 2023.

National

Chetna Dang presented a paper entitled 'Long-term Trends in Winter PM_{2.5} and its Linkages to Meteorology over Delhi, India' during one-day National Symposium on the theme "Advancements on Various Fields of Physics" organised by the Association of Indian Physicists (AIP) & Janardan Singh Foundation on September 03, 2023.

Jasmeet Singh presented a seminar entitled 'Potential energy curves of biorelevant Carbon based compounds in space' as an invited speaker during Symposium on "Genesis and Evolution of Organics in Space" organised by the Indian Institute of Space Science and Technology (IIST) at Valiamala, Thiruvananthapuram, Kerala from January 18-20, 2024.

Prof. Vinita Jindal

Presented a seminar entitled 'Congestion Control in Vehicular Ad-hoc Networks' at ICAC-2024, SRMS, Bareilly, UP on February 24, 2024

Presented a seminar entitled 'Enhancing Cybersecurity through Artificial Intelligence' at the ATAL conference organized by Manav Rachna International Institute of Research and Studies, Faridabad, Haryana from March 5-10, 2024.

Other Inter-Institutional Collaboration

Prof. Vinita Jindal is currently guiding one international student in collaboration with Prof. James Harland from RMIT Australia.

Placement Details (Number and percentage of students placed)

Number of students placed: 90.

Number of Companies visited for campus recruitment: 44.

Extension and Outreach Activities

Several events were conducted during the months from January to March 2023 to raise awareness about societal issues like voting, mental health and bullying among others and these include:

To mark the occasion of National Voter's Day, a pledge ceremony was organised which focused on creating awareness about the importance of voting and making the right choice. An interactive session was also organized which gave students a discussion table for sharing their views and arguments regarding the voting rules and regulations. Volunteers vocalized the need for voting and its power to change the future during the walkathon event. In continuation of the zeal of the voting vigilance challenge, a quiz competition was arranged, based on history, right to vote, the conduct of elections, etc. During the demonstration for casting a vote, students and teachers learned how to cast a vote using EVM and VVPT which will not only secure their votes but also allow them to verify their vote.

Mental health awareness sessions underscore the significance of mental well-being and bunking the stigma around mental health. Gamezone witnessed how games can foster togetherness and positive emotions daily.

Campus Cleanliness Drive: The cleanliness drive helped in maintaining cleanliness and hygiene in the college campus for an overall well-being.

Library Development

The college library is well-stocked with a large reading room and is fully automated with e-Granthalaya software on the NIC Cloud. It is also a member of N-List database, providing access to various e-resources (e-books and e-journals). The library has 30823 books, including text books, reference materials, and encyclopedias. There are also 34 magazines and 15 newspapers ordered for 2023-24, and over 740 CDs and DVDs available. Users can access thousands of e-journals and research articles provided by DULS through the internet. Library services include circulation, technical, and reservation services, as well as internet access. The library also has 32 CCTV cameras for security and Braille materials for visually impaired users.

Faculty Strength

Senior Professor/Professor/Director: 17

Associate Professor: 22

Assistant Professor: 7

Ad-hoc: 41

Guests: 20

Financial Allocation and Utilization

Grant Allocated: ₹ 31,15,38,000/-

Grant Utilized: ₹ 29,33,68,070/-

KIRORI MAL COLLEGE

Major Activities and Achievements

Kirori Mal College launched a part-time paid internship programme 'Principal KMC Internship Scheme' (PKIS) for three months, offering 8 interns from four different College domains. In this Scheme, a stipend of ₹ 2400/- is given to each intern per month after the completion of 24 hours of work. Another very significant step the College has taken towards the research-based initiative is to establish the Research Council which has implemented an Interdisciplinary KMC Research Projects in three categories – Experimental, Computational and Theoretical – for the faculty members for a duration of one year through Research and Innovation Fund of the College. Further, since the launch of the new College website a year back, the College has been able to continue advancing at multiple levels coping with the need of the hour. The ERP at the College Website is fully functional now making every affair of the College accessible online. Besides all these, a historical event in the growing life of the College has occurred when, in the auspicious presence of Prof. Yogesh Singh, the Vice-Chancellor of the University of Delhi, the ceremony of the Bhoomi Poojan: Laying of Foundation of the Renovation of the Frank Thakur Memorial Auditorium was conducted on March 9, 2024 after receiving a grant of ₹ 6 Crore from the Ministry of Culture towards construction cost of the same apart from the previously generated funds from the Alumni and other amounts passed by the College Governing Body.

Honours/Distinctions

Faculty

Prof. Dinesh Khattar 1. Received the 5th Dr. APJ Abdul Kalam National Dedication Award 2024 for contribution in the field of Higher Education on March 1, 2024.

Prof. Seema Mehra Parihar 1. One Month Invitation as a Visiting Professor at Le Havre University, Normandie; 2. Visiting Professor Invitation to Five Universities of Indonesia.(May 2023) located at Surabaya Indonesia; Kupang, Indonesia and Ende, Indonesia; 3. Fellow, Delhi School of Public Health (DSPH), Institute of Eminence (IoE), University of Delhi; 4. National Trainer under Rashtriya Kishor Swasthya Karyakram (RKSK), Ministry of Health and Family Welfare, Government of India.

Students

Gurlin Chopra, B.Sc. (Hons) Mathematics, II year; Parth Joshi, B.Sc. (Hons) Physics, III year; Dhruv Aggarwal, B.Sc. (Hons) Statistics, III year; Deepak Yadav, B.Sc. (Hons) Mathematics, III year; Lucky, B.Sc. (Prog) Physical Science with Chemistry, III year have achieved the highest marks across all courses in the college in the academic year 2022-23.

Publications

Scopus Indexed Journals

Agrawal, V., Priyadarshani, A., Pathak, D. P., & Sandal, N. (2024). Enhancing oral bioavailability of Ca-DTPA by self double emulsifying drug delivery system (SDEDDS). Drug Development and Industrial Pharmacy, 50(1), 78-88.

Bajaj, D., Rawat, V. S., Malik, K., Aggarwal, P., Priyadarshani, A., & Wadhwa, N. K. (2023). Investigating the attitudes and current trends influencing Mental health in the undergraduate students of University of Delhi. *Journal of Integrated Science and Technology*, 11(4), 566-566.

Khattar, D., Agrawal, N., & Singh, G. (2023). Chaos synchronization of a new chaotic system having exponential term via adaptive and sliding mode control. *Differential Equations and Dynamical Systems*, 1-19.

Khattar, D., Agrawal, N., & Singh, G. (2023). Triple compound combination synchronization of eleven n-dimensional chaotic systems. *International Journal of Dynamics and Control*, 11(5), 2499-2513.

Khattar, D., Agrawal, N., & Singh, G. (2024). Anti-difference quadratic compound synchronization of Lorenz, Rössler, modified finance, and Shimizu–Morioka chaotic systems. *Indian Journal of Physics*, 98(4), 1415-1423.

Khattar, D., Agrawal, N., & Sirohi, M. (2023). Dynamical analysis of a 5D novel system based on Lorenz system and its hybrid function projective synchronisation using adaptive control. *Pramana*, 97(2), 76.

Khattar, D., Agrawal, N., & Sirohi, M. (2024). Qualitative analysis of a new 6D hyper-chaotic system via bifurcation, the Poincaré notion, and its circuit implementation. *Indian Journal of Physics*, 98(1), 259-273.

Rai, S. C., Pandey, V. K., Sharma, K. K., & Sharma, S. (2024). Landslide susceptibility analysis in the Bhilangana Basin (India) using GIS-based machine learning methods. *Geosystems and Geoenvironment*, 3(2), 100253.

Suman, A. K. (2023). Teaching For The Workforce: Industrial Schools And Educational Methods In Colonial India (1850s-1940s). *Journal of Namibian Studies: History Politics Culture*, 33, 3520-3542.

UGC-Care listed Journals

Anshuman, P. K. (2023). Exploring the Inner and Outer Worlds: A Journey of Self- Realization. *Atishay Kalit: An International Bilingual Research Journal of Humanities*, 18(10), 119-125.

Dua, P., & Verma, N. (2024). Drivers of Foreign Direct Investment Inflows to Emerging Asian Economies. *Journal of Emerging Market Finance*, 23(1), 83-107.

Khan, M.A. (2023). Ghalib aur Unka Fun. *Tahreek-e-Adab*, 16(61), 268-280.

Suman, A. K. (2023). Pursuit of a Separate State: Colonialism and the Biharis' Quest for Equality. *Tareekh-e- Adab-e-Urdu*, 5(4), 196-222.

Web of Science Indexed Journals

Ahmad, T., Jindal, K., Tomar, M., & Jha, P. K. (2023). Effect of codoping of rare earth elements and Cr on multiferroic, optical and photocatalytic properties of BiFeO₃. *Materials Today Communications*, 37, 107516.

Anand, S., Hallsworth, J. E., Timmis, J., Verstraete, W., Casadevall, A., Ramos, J. L., ... & Timmis, K. (2023). Weaponising microbes for peace. *Microbial Biotechnology*, 16(6), 1091-1111.

Bhimwal, T., Puneet, & Priyadarshani, A. (2023). Understanding polycystic ovary syndrome in light of associated key genes. *Egyptian Journal of Medical Human Genetics*, 24(1), 38.

- Chaudhary, V., Chaturvedi, S., Wadhwa, A., Chaudhary, R., Gautam, D., Sharma, D., ... & Mishra, A. K. (2024). Design, development and bio-evaluation of a novel radio-ligand ^{99m}Tc -THQ-DTPA as a sigma 2 receptor specific breast tumor imaging agent. *Bioorganic & Medicinal Chemistry*, 97, 117515.
- Kaur, J., Sood, U., Talwar, C., Whitman, W. B., & Lal, R. (2023). Phylogenomics-based reclassifications in the genus *Psychrobacter* including emended descriptions of *Psychrobacter pacificensis*, *Psychrobacter proteolyticus* and *Psychrobacter submarinus*. *Antonie van Leeuwenhoek*, 116(11), 1113-1121.
- Kumar, L., Verma, N., Tomar, R., Sehrawat, H., Kumar, R., & Chandra, R. (2023). Development of bioactive 2-substituted benzimidazole derivatives using an MnO_x/HT nanocomposite catalyst. *Dalton Transactions*, 52(10), 3006-3015.
- Kumar, S., Arora, A., Sapra, S., Kumar, R., Singh, B. K., & Singh, S. K. (2024). Recent advances in the synthesis and utility of thiazoline and its derivatives. *RSC Advances*, 14(2), 902-953.
- Kumari, M., Jindal, K., Munjal, S., Tomar, M., & Jha, P. K. (2024). Analog resistive switching behavior in BiCoO₃ thin film. *Solid-State Electronics*, 212, 108831.
- Kumari, M., Jindal, K., Tomar, M., & Jha, P. K. (2023). Effect of 3d transition metal doping on the structural, electronic, & magnetic properties of BiCoO₃ using first principles study. *Journal of Magnetism and Magnetic Materials*, 588, 171383.
- Lochab, A., Jindal, K., Chowdhuri, A., Tomar, M., & Saxena, R. (2023). Conductive polymer based MWCNTs nanocomposite as electrochemical sensing platform to detect chloramphenicol. *Synthetic Metals*, 297, 117397.
- Sharma, V. K., Mangla, P., Singh, S. K., & Prasad, A. K. (2024). Triazole-linked nucleic acids: Synthesis, therapeutics and synthetic biology applications. *Current Organic Synthesis*, 21(4), 436-455.
- Singh, M., & Singh, S. K. (2023). Role of homobrassinolide, abscisic acid, and 6-benzylamino purine on delaying flower senescence in *Gladiolus grandiflora*. *Plant Science Today*, 10(4), 44-51.
- Thomas, S., Kaur, J., Kamboj, R., Thangariyal, S., Yadav, R., Kumar, K., & Dhania, N. K. (2024). Investigate the efficacy of size exclusion chromatography for the isolation of extracellular vesicles from *C. elegans*. *Journal of Chromatography B*, 1233, 123982.
- Tiwari, N., Kumar, D., Priyadarshani, A., Jain, G. K., Mittal, G., Kesharwani, P., & Aggarwal, G. (2023). Recent progress in polymeric biomaterials and their potential applications in skin regeneration and wound care management. *Journal of Drug Delivery Science and Technology*, 82, 104319.
- Varghese, S., Chaudhary, J. P., Thareja, P., & Ghoroi, C. (2023). Newly developed nano-biocomposite embedded hydrogel to enhance drug loading and modulated release of anti-inflammatory drug. *Pharmaceutical Development and Technology*, 28(3-4), 299-308.
- Yadav, G., Jindal, K., & Tomar, M. (2023). Fabrication of GaN-based MSM droplet triboelectric nanogenerator by the conjunction of photovoltaic and triboelectric effect. *Journal of Alloys and Compounds*, 944, 169178.

Research Projects

Prof. Anita Kamra Verma (Department of Zoology) – Project entitled, ‘Sertraline intervention for enhancing anti-TB therapeutic regimen (SINERG) to see the effect of the Sertraline as adjunct to ATT’ was funded by ICMR (March 2023 – December 2023) for ₹ 9 lakhs.

Prof. Anshu (Department of Geography) – Project entitled, ‘Discourse of Climate Change and Adaptations Policy in the Western Himalayan region of India Community’ was funded by ICSSR for ₹ 8.5 lakhs.

Dr. Kajal Jindal (Department of Physics) – Project entitled, ‘Embedding ferroelectric hafnium-zirconium oxide (HZO) in gate stack of GaN based junction-less transistor’ was funded by DST-SERB (For 3 years starting from 16 March 2024) for ₹ 31.93 lakhs

Dr. Kajal Jindal (Department of Physics) – Project entitled, ‘Bioassay Development: For the Field Diagnosis of Thrombosis’ was funded by Defence Institute of Physiology and Applied Sciences (DIPAS), DRDO (For 1 year starting from 21 December 2023) for ₹ 27.42 lakhs.

Dr. Utkarsh Sood (Department of Zoology) – Project entitled, ‘Process optimization and scale-up of extremozymes from microbiome of Himalayan hot springs and cold deserts for industrial application’ was funded by Department of Biotechnology, Government of India for ₹ 437 lakhs

Patents Filed/Granted

Patent with Application Number: 202311040935 and Photoelectrochemical water splitting based biosensor for detecting uric acid in the biological fluids

Patent with Application Number: 202311037845 and A Gallium Nitride (GaN) Based Junctionless Transistor For Sensing Uric Acid

Seminars Organized

Prof. B K Singh, Professor, Department of Chemistry, University of Delhi, Noble Metals to Nobel Metals, January 23, 2024.

Prof. R. P. Singh, Professor, Department of Chemistry, IIT Delhi, Role of Molecular Chirality in the Living World, August 29, 2023.

Conferences Organized

Conference entitled, ‘Emerging Trends and Future Challenges in Chemical Sciences, ETFC-2024’ was organized on February 12, 2024 and was sponsored by DST-SERB, DRDO, CSIR, SRL Chemicals Pvt. Ltd.

Seminar/Conference Presentations (National / International)

International

Rupesh Kumar presented a paper entitled ‘Incorporating Ferrocene to Enhance Blood-Brain Barrier Permeability: Design and Synthesis of Novel Ligands as Brain Imaging Agents’ at an International Conference on Crossroads of Chemistry, Biology & Atmospheric Environment held at Department of Chemistry, University of Delhi from February 26-28, 2024.

Sameer Lama

Sameer Lama presented a paper entitled ‘Assessment of Taxation and Economic Variables of BRICS nations and its Impact on SDG Indicators: An Empirical Evidence’ during the 6th International Conference of Multinational Enterprise and Sustainable Development (MESD’23) organized by the Department of Commerce, Delhi School of Economics, University of Delhi on November 30, 2023.

Sameer Lama presented a paper entitled 'Environmental Taxation and Carbon Emissions in G20 Nations' during the 3rd International Conference organized by the Global Research Foundation for Corporate Governance (GRFCG) on September 9, 2023.

Seema Mehra Parihar

Seema Mehra Parihar presented a papers entitled 'Gender and Development'; 'Gender Mainstreaming in Asia through Financial Empowerment' and 'Women War and Peace' during the Conference on the Role of Asia in Global History and Perspectives organized at Le Havre University, Normandy, France on February 21-23, 2024.

National

Amit Kumar Suman presented a paper entitled, 'Colonial Encounter with Indigenous Islamic Learning and the Hooghly Mohsin College' during the Conference on "Rise of Islam in India", sponsored by Ministry of Culture, Government of India organized at Banaras Hindu University, Varanasi.

Jasmeet Singh presented a seminar entitled 'Potential energy curves of biorelevant Carbon based compounds in space' as an invited speaker during Symposium on "Genesis and Evolution of Organics in Space" organised by the Indian Institute of Space Science and Technology (IIST) at Valiamala, Thiruvananthapuram, Kerala from January 18-20, 2024.

Praveen Kumar Anshuman presented a paper entitled, 'Concept of Cosmocal Preading: A Way to Envision the Holistic Approach' during an International Conference on "Reimagining Plenatory: Planetarity and the Earth Family" organized at Banaras Hindu University from November 24-25, 2023.

Pushpendra Kumar presented a paper entitled, 'Understanding digital financial literacy and its role in financial behavior and financial wellbeing' during the National conference on Public administration and citizen-centric governance priority, policies and strategies organized by Indian Institute of Public Administration on November 24, 2023.

Pushpendra Kumar presented a paper entitled, 'Develop your intellect with Bhagwat Gita' during a National Seminar on Indian Knowledge System in Education: The way forward organized by Department of Education, the Maharaja Sayajirao University of Baroda, Vadodara from January 11-12, 2024.

Raksha Sharma presented a paper entitled, 'Naimark type results using frames' duing an online Seminar on Mathematical Analysis and Generalized Integration organized on February 8-10, 2024.

National / International MoUs Signed

MoU signed with PhiXgen starting from June 6, 2022 continuing till May 6, 2024. Coordinator/Witness: Prof. V. S. Chauhan Vs Dr. Rup Lal.

MoU signed with Xavier's Resource Centre for the Visually Challenged starting from September 8, 2021 continuing till August 8, 2024. Coordinator/Witness: Prof. V.S. Chauhan Vs Dr. Sam Taraporevala.

MoU signed with Shri Ram Institute starting from January 6, 2022 continuing till May 31, 2025. Coordinator/Witness: Prof. V.S chauhan Vs Dr. Mukul Das.

MoU signed with Center for the study of diability inclusion, Janki Devi Memorial starting from December 9, 2023 continuing till November 9, 2028. Coordinator/Witness: Prof. Dinesh Khatter Vs. Dr. Swati Pal.

MoU signed with Sophia College for Women, Mumbai starting from December 13, 2023 continuing till December 12, 2028. Coordinator/Witness: Prof. Dinesh Khattar Vs. Dr. A.T. Patil.

MoU signed with Assitech Lab, IIT, Delhi starting from January 11, 2023 continuing till October 31, 2025. Coordinator/Witness: Prof. Dinesh Khattar Vs. Dr. P.V.M. Rao.

MoU signed with Bhanuben Mahendra Nanavati College for Home Science, Mumbai starting from June 11, 2023 continuing till May 5, 2028. Coordinator/Witness: Prof. Dinesh Khattar Vs. Dr. Mala Pandurang.

MoU signed with Bhawanipur Education Society, Kolkata starting from May 7, 2023 continuing till April 7, 2028. Coordinator/Witness: Prof. Dinesh Khattar Vs. Dr. Subhabrata Ganguli.

MoU signed with Department of English, Kashmir University, Jammu and Kashmir starting from April 7, 2023 continuing till March 7, 2026. Coordinator/Witness: Prof. Dinesh Khattar Vs. Dr. Iffat Maqbool.

MoU signed with SGTB Khalsa College, University of Delhi starting from December 5, 2023 continuing till November 5, 2028. Coordinator/Witness: Prof. Dinesh Khattar Vs. Dr. Jaswinder Singh.

MoU signed with Arya Vidyapeeth College, Guwahati starting from December 19, 2022 continuing till December 18, 2027. Coordinator/Witness: Prof. V. S. Chauhan Vs Dr. Pradip K. Bhattacharaya.

MoU signed with Amety Technology Incubator (ATI) starting from January 12, 2022 continuing till November 30, 2024. Coordinator/Witness: Prof. V. S. Chauhan.

MoU signed with Sanskrit Bharati, Delhi starting from June 6, 2022 continuing till May 6, 2024. Coordinator/Witness: Prof. V. S. Chauhan Vs Dr. Sushil Kumar.

MoU signed with Vasanta College for Women, Varanasi starting from November 24, 2022 continuing till November 23, 2027. Coordinator/Witness: Prof. V. S. Chauhan Vs Dr. Alka Singh.

MoU signed with St. Xavier's College, Ahmedabad starting from October 29, 2022 continuing till October 18, 2027. Coordinator/Witness: Prof. V. S. Chauhan Vs Dr. S.J. Lancelot Dacruz.

MoU signed with SRS Institute of Education & Tech., Gijha starting from September 1, 2020 continuing till August 1, 2023. Coordinator/Witness: Prof. V. S. Chauhan Vs. Dr. O.P. Singh.

MoU signed with National Productivity Council starting from November 3, 2020 continuing till October 3, 2023. Coordinator/Witness: Prof. V. S. Chauhan Vs. Dr. Harpreet Kaur.

MoU signed with Central Public Works Department (CPWD) starting from July 17, 2023 till date. Coordinator/Witness: Prof. Dinesh Khattar Vs. Ms. Priya Chaudhary.

Other Inter-Institutional Collaboration

Indo-UK Going Global Grant 2024-2025 with UCLAn, Preston, UK.

Placement Details (Number and percentage of students placed)

Number of students placed: 142.

Number of recruiters: 122, Nature of Industries: Research & Strategy, Operations, Human Resources, Business Development, Marketing, management, Finance and data Analysis.

Extension and Outreach Activities

An institution's alumni network plays a pivotal role in its success, contributing significantly to its reputation. College facilitated connections with over 215 firms this session, simplifying the job search process for students. The median CTC offered this year was ₹ 5.40 LPA, with an average CTC of ₹ 5.87 LPA. Notably,

the highest package offered was INR 21 LPA, with a gross total annual compensation reaching an impressive ₹ 10.19 Crores, signaling strong demand for Kirori Mal College graduates. This remarkable achievement further strengthens our reputation as a premier educational institution.

Library Development

Among several significant projects accomplished in the current academic year 2023-24 development of a fully air-conditioned reading hall which stays open from 8.00 am to 8.00 pm for both boys and girls along with two additional reading halls which are also fully air-conditioned and operational during college hours. The college is progressing towards establishing a Research Hall / e-learning center equipped with electronic devices and aligning with the NEP 2020 curriculum to benefit both students and faculty. The college Library offers software and facilities catering to differently-abled students and faculty members. The College has further procured and installed new tables and chairs on the ground floor, acquired and installed five AC units across various areas and installed marvel blackout roller blinds. The college also maintained automation in the Library for book search through software maintenance and also organized an interactive session by Dr. Rajesh Singh, Librarian CRL, and managed employee appointments through GEM. Total books purchased during the academic year 2023-24 were 1384.

Faculty Strength

Senior Professor/Professor/Director: 37

Associate Professor: 54

Assistant Professor: 136

Guests: 136.

Financial Allocation and Utilization

Grant Allocated: ₹ 97,72,26,951/-

Grant Utilized: ₹ 96,02,47,408/-

LADY IRWIN COLLEGE

Major Activities and Achievements

Lady Irwin College has pioneered women's education following an inclusive and empowering approach focusing on capacity building, skill development and sustainability. The college is considered to be one of the best institutes for providing Home Science education not just nationally, but internationally as well. Currently, the college is ranked 22 among colleges by NIRF and holds an A+ accreditation by NAAC (2018). Over 9 decades the college has participated in national policies and program implementation through community outreach, innovation, collaboration and quality assurance. Having recognized as Centres of Excellence by UGC (CAS), UN-agencies and Ministries, the college proudly holds the positions of Women Collectives led Social Action Centre (ROSHNI by MoRD), National Centre of Excellence and Advanced Research on Diets (NCEARD by MoHFW), Design Innovation Centre (SPOKE by MHRD),

Star College by DBT Star College Scheme, Nodal Center for PMFME Scheme Flagship scheme by MoFPI, GoI and Skill Development Centre by National Skill Development Council (NSDC).

Well-trained faculty, innovative students, state-of-the-art infrastructure and partnerships with Government Ministries, UNICEF funding and Master NGOs, has strategically placed our college as a nodal agency to guide national policies and thus, aid in nation development. NCEARD centre has been able to guide national policy on diets, anaemia and development of a PAN-INDIA Maternal Nutrition Toolkit. ROSHNI centre has served as technical hub for FNHW interventions aligned with DAY-NRLM Dashasutra strategy and Jan Andolan under Poshan-Abhiyan.

Honours/Distinctions

Faculty

Prof Pulkit Mathur was appointed as a Chairperson and presented his talk entitled, ‘Community Nutrition’ during the 55th Annual Conference of the Nutrition Society of India held at NIN, Hyderabad on November 26, 2023. He has been appointed as a Member, Board of Studies, Home Science-Food and Nutrition, IIS University, Jaipur, Rajasthan. Appointed as a Member, Scientific Panel 18 on Nutrition and Fortification, Food Safety and Standards Authority of India and a Member representing South Asia, International Scientific Committee, Choices International Foundation, Netherlands

Prof. Priti Rishi Lal received an Award of excellence for VAC examination during the year 2023-24.

Dr Desham Kodandaram Reddy received an Innovative Research Award in Home Science (Kanwalnath Padmabodhini research award) on 91st Founders Day of Lady Irwin College for the period 2022-2023.

Prof. Aparna Khanna was awarded and recognised by ‘The Richmond Fellowship Society (India)’, Delhi branch for her outstanding contribution in the field of Mental Health.

Dr. Sunaina Dua received Certificate of Appreciation from Directorate of Women & Child Development, Government of Assam as an Expert for 4-day workshop on SBC in April, 2023.

Prof. Meenakshi Mital was awarded with a First Prize by the Department of Post, Ministry of Communication, Government of India in Dhai Aakhar Competition for writings on “Vision for India 2047”. The award carried a citation along with a cash award.

Prof. Puja Gupta was a recipient of Woman Leader Award in Skill Development by Woman Leaders Forum during the Global Empire Events & BizNation TV on December 22, 2023.

Publications

Scopus Indexed Journals

Chopra, S., Singh, S. N., & Mathur, P. (2024). Nutritional Fuelling for Microgravity Environment of Space Missions. *Current Nutrition & Food Science*, 20(4), 450-465.

Gupta, A., Sachdev, H. S., Kapil, U., Prakash, S., Pandey, R. M., Sati, H. C., ... & Lal, P. R. (2023). Characterisation of anaemia amongst school going adolescent girls in rural Haryana, India—CORRIGENDUM. *Public Health Nutrition*, 26(10), 2181-2181.

Gupta, A., Sachdev, H. S., Kapil, U., Prakash, S., Pandey, R. M., & Lal, P. R. (2024). Etiology of Mild and Moderate Anaemia Among Rural Adolescent Girls in India. *Indian Journal of Hematology and Blood Transfusion*, 40(2), 255-260.

Mathur, P., & Bakshi, A. (2024). Effect of non-nutritive sweeteners on insulin regulation, glycemic response, appetite and weight management: a systematic review. *Nutrition & Food Science*, 54(1), 100-119.

Mediratta, S., Ghosh, S., & Mathur, P. (2023). Intake of ultra-processed food, dietary diversity and the risk of nutritional inadequacy among adults in India. *Public Health Nutrition*, 26(12), 2849-2858.

Sharma, V., & Chadha, R. Development and evaluation of food photograph series software for portion size estimation among urban North Indian adults. *Mediterranean Journal of Nutrition and Metabolism*, 16(4), 293-312.

Thakur, S., & Mathur, P. (2023). Impact of COVID-19 pandemic on the eating habits and lifestyle of children and their families in North India. *Journal of Public Health*, 1-13.

Yadav, R., Khurana, S., & Kumar, S. (2023). Comparative study of properties of basmati and non-basmati rice cultivars. *Ukrainian Food Journal*, 51.

UGC Care-List indexed Journals

Bharat, H. & Upadhyay, R. (2023). Aspirations and barriers perceived by rural youth in engaging with agribusiness in Baghpat district of Uttar Pradesh. *International journal of multidisciplinary educational research*, 12(2), 31-36.

Bharat, H. & Upadhyay, R. (2023). A study on consumer's purchase intention towards organic food in Delhi NCR. *International journal of multidisciplinary educational research*, 12(7), 90 - 97.

Gupta, M. & Madhok, M. (2023). Customers' satisfaction with selected theme restaurants of Delhi. *The Indian Journal of Home Science*, 35(2), 169-178

Kannur, D. and Komala, M., (2023). Impact of maternal factors on nutrition status in Jenu Kuruba children. *Juni Khyat*, 13(8), 160-165.

Kannur, D. and Komala, M. (2023). Feeding practices and nutritional status of under-five children in Jenu Kuruba Tribal population. *Juni Khyat*, 13(8), 160-165.

Kumari, A., Rao, E. S., & Agarwal, A. (2023). A review on by-product utilization of plantain. *Journal of Postharvest Technology*, 11(3), 138-153.

Mediratta, S., & Mathur, P. (2023). Does Nutritional Knowledge Translate into Healthier Dietary Practices: Perceptions and Barriers to Healthy Eating among Indian Adults. *The Indian Journal of Nutrition and Dietetics*. 60(4), 505–519.

Mediratta, S., & Mathur, P. (2023). Nutritional Quality of Diets of Adults (20-40 years) in Delhi, India. *The Indian Journal of Nutrition and Dietetics*, 60(3), 334–350.

Seth, M., & Khanna, A. (2023). Engaging Children during COVID-19 for Functional Literacy of Adult Learners: A Case Study. *Indian Journal of Adult Education*, 84(1), 153-162.

Sindhuja, M., Verma, L., & Lal, P. R. (2024). Yogic Interventions for Weight Loss-A Narrative Review. *Indian Journal of Nutrition and Dietetics*, 61(1).

Sindhuja, M., Verma, L. and Lal, P. R. Yogic Interventions for Weight Loss - A Narrative Review. The Indian Journal of Nutrition and Dietetics, 61(1), 84–99.

Verma, A., Verma, L., Bakshi, A. (2024). Lifestyle risk factors and associated diseases among school teachers of north-east Delhi: A cross sectional study. The Indian Journal of Home Science, 36(1), 286-297

Vahi, N. & Kumar, A. (2023). Cash Transfer Programs and Women's Financial Inclusion: A Review of Empirical Evidence. International Journal of Multidisciplinary Research, 12(3), 3-7.

Research Projects

Prof. Sarita Anand – Project entitled, ‘Roshni Centre of Women collectives led Social Action, Technical Support Unit, National Rural Livelihood Mission’ Funded UNICEF.

Prof. Aparna Khanna – Project entitled, ‘Human-Centered Design – Implementation Research’ Sponsoring/Funding Agency: UNICEF, Period: 2023 to 2024.

Prof. Archana Kumar & Prof. Aparna Khanna – Project entitled, ‘Capacity Building of HEI in Social & Behaviour Change’.

Patents Filed/Granted

Copyright number L-124056/2023 awarded to Prof. Aparna Khanna (Department of Development Communication & Extension) on June 7, 2023 for the game titled ‘Peace Maker vs Peace Breaker’

Copyright number L-126627/2023 awarded to Prof. Aparna Khanna (Department of Development Communication & Extension) on June 19, 2023 for the game titled ‘Mental Health Varnamala’

Copyright number L-135508/2023 awarded to Prof. Aparna Khanna (Department of Development Communication & Extension) for game titled ‘Find the Hidden Words’ granted on November 6, 2023.

Copyright number L-135509/2023 awarded to Prof. Aparna Khanna (Department of Development Communication & Extension) for game titled ‘Find the Differences’ granted on November 6, 2023.

Seminars Organized

Dr. Pratima Khandelwal, Founder FlyHigh, Bangaluru, Professional Skills for Empowered Career Ahead, April 12, 2024.

Dr. Manasi Sharma, Research Scientist, Harvard TH Chan School of Public Health, USA, Assessment of trauma and mental health in humanitarian settings using quantitative and qualitative research methods, March 6, 2024.

Mr. Rajat Gupta, Content Writer, CREDFLOW, Search Engine Optimization, for one of the SEC course under NEP 2020, June 24, 2023.

Ms. Gayatri Subramaniam, Director, Association of Women in Business, Former Chief Programme Executive, Indian Institute of Corporate Affairs, Ministry of Corporate Affairs, Government of India, CSR: Current Trends & Opportunities, May 23, 2023.

Seminar/Conference Presentations (National / International)

International

D. Kannur presented a paper entitled, 'Indigenous knowledge of developmental activities among mothers of under-five children' during an International Conference on 'Integrating Indigenous Knowledge Systems in Higher Education' organized from November 29-30, 2023.

M. Jain presented a paper entitled, 'Perspective of channel partners regarding off-grid solar installations in commercial buildings in India' during the 18th International Conference on Sustainable Development held at Montclair State University, New Jersey, USA, and organized by International Centre for Interdisciplinary Research in Law (ICIRL), Centre for Research in Social Justice and Policy (CRSJP) at Laurentian University and Ontario International Development Agency (OIDA), Canada from December 13-14, 2023.

National

A. Chauhan presented a paper entitled, 'Experience of Sibling Relationship: A qualitative study' during a National conference on 'Learning 2023' conducted on December 2, 2023.

C. Rawat presented a paper entitled, 'Psychological and Emotional Consequences of Sexual Harassment on Adolescents' during a National Seminar on 'Sexual Harassment Awareness and Prevention' conducted on February 21-22, 2024.

Kritika presented a paper entitled, 'Indigenous practices with scientific knowledge for profitable agriculture' during the National Conference on 'Frontiers in Agricultural Research-Challenges and Opportunities for Food and Nutritional Security' conducted on June 5-6, 2023.

M. Zingkhai presented a paper entitled, 'Socioeconomic Impact of Women Food Vendors for Household Sustainability in Tribal Manipur' during the 35th Biennial Conference of Home Science Association of India (HSAI)-2024 on Multi-Disciplinary Approaches in Home and Community Sciences for Sustainable Development, College of Community Science, CAU (Imphal) Tura, Meghalaya organized from December 17-19, 2023.

N. Makol presented a paper entitled, 'Green Hydrogen: Understanding techno- commercial viability for Industries in India' during the 18th International Conference on Sustainable Development held at Montclair State University, New Jersey, USA, and organized by International Centre for Interdisciplinary Research in Law (ICIRL), Centre for Research in Social Justice and Policy (CRSJP) at Laurentian University and Ontario International Development Agency (OIDA), Canada from December 13-14, 2023.

P. Khanna presented a paper entitled, 'Women – led Knowledge initiatives for Climate Resilient Agriculture in Palwal Haryana' during the 35th Biennial Conference of Home Science Association of India (HSAI)-2024 on Multi-Disciplinary Approaches in Home and Community Sciences for Sustainable Development, College of Community Science, CAU (Imphal) Tura, Meghalaya organized from December 17-19, 2023.

S. Tiwari presented a paper entitled, 'A Systematic Review on Sexual Harassment and Marital Adjustment' during the National Seminar on 'Sexual Harassment Awareness and Prevention' conducted on February 21-22, 2024.

S. Tiwari presented a paper entitled, 'Impact of workplace stress faced by Women Police Personnel working in Police Department' during the 35th Biennial Conference of Home Science Association of India on

‘Multidisciplinary Approaches in Home and Community Sciences for Sustainable Development’ conducted on January 17-19, 2024.

S. Tiwari presented a paper entitled, ‘Correlating Psychology and Spirituality to Achieve Holistic Well-being’ at Babasaheb Bhimrao Ambedkar University Lucknow on February 27, 2024.

National/International MoUs Signed

MoU signed with Ministry of Rural Development GOI for Roshni - Centre of women collectives and led social action, on January 23, 2024. Convenor- Prof. Sarita Anand (Department of Development Communication and Extension)

MoU signed with School of Planning, Design & Construction, Michigan State University.

Other Inter-Institutional Collaboration

Prof. Aparna Khanna (Department of Development Communication & Extension) conducted training of faculty and students of GL Bajaj Institute of Management and Research, Greater Noida, Uttar Pradesh in creating awareness and conducting campaigns on mental health, in collaboration with RAHAT Charitable and Medical Research Trust and Richmond Fellowship Society (India) Delhi. Training held on April 6, 2023.

Prof. Aparna Khanna (Department of Development Communication & Extension) conducted training of faculty and students of Delhi Metropolitan Education, Noida, Uttar Pradesh in creating awareness and conducting campaigns on mental health, in collaboration with RAHAT Charitable and Medical Research Trust and Richmond Fellowship Society (India) Delhi. Training held on April 11, 2023.

Prof. Aparna Khanna (Department of Development Communication & Extension) conducted training of faculty and students of Army Institute of Education, Greater Noida, Uttar Pradesh in creating awareness and conducting campaigns on mental health, in collaboration with RAHAT Charitable and Medical Research Trust and Richmond Fellowship Society (India) Delhi. Training held on May 3, 2023.

Prof. Aparna Khanna (Department of Development Communication & Extension) conducted awareness sessions around mental health by trained youth volunteers of Barabanki district, Uttar Pradesh in their community on June 30, 2023.

LADY SHRI RAM COLLEGE FOR WOMEN

Major Activities and Achievements

LSR hosted several delegations from leading universities including Macquarie University, University of Melbourne and University of Dublin during the academic year 2023-24. The Senator Hon. Penny Wong, Minister for Foreign Affairs, Australia visited the campus on November 21, 2023. A delegation from La Trobe University, Australia which was led by Professor Theo Farrell deliberated on the prospects of diversifying exchange programmes March 20, 2024.

The college won several prizes during the 66th Delhi University ‘Flower Show’ held in March 2024 and some of the prizes include the Department of Geography Cup, Green Cup, Department of Sociology Cup and Ramlabahar Cup. Sports teams of the college were recipient of several medals at the national and

international levels. Rhythm Sangwan made history by becoming the 16th Indian shooter to secure a quota place for the 2024 Paris Olympics. She won a bronze medal in the 25m sports pistol category at the Asian Olympic Qualifiers (Jakarta). Bhavya Tripathi represented India in Trap shooting and won the World Cup Gold while para-athlete, Sidra won national medals in the IBSA and PCI para National Championship.

Honours / Distinctions

Faculty

Dr. Shernaz Cama was the recipient of 7th Dr. Sarojini Naidu International Award for working women on October 26, 2023 from the Asian Academy of Arts and International Women's Film Forum.

Dr. Sarika Kalra received the Commanding Officers Appreciation Card, 18th Battalion, The Madras regiment, on September 4, 2023 at the Army attachment camp (NCC), Delhi Cantonment, New Delhi.

Ms. Deepika Papneja received the Community Builder Award by City Councillor Chris Moise, on October 6, 2023 for exemplary capacity building and advocacy in a community of Toronto, Canada.

Prof. Smita Sahgal was recipient of Best Paper Presentation Award at an International Conference on Linguistics and Literature held from July 25-27, 2023 in Vienna, Austria.

Dr. Vartika Nanda received the Rajkumar Keswani Award from the Rajkumar Keswani Foundation (Bhopal, Madhya Pradesh) on November 26, 2023.

Students

Rhythm Sangwan, B. A. (Hons) English, II year, became the 16th Indian shooter to secure a quota place for the 2024 Paris Olympics. She was also a recipient of bronze medal in the 25m sports pistol category at the Asian Olympic Qualifiers (Jakarta).

Tenzing Yangdon, B. A. (Hons) English, III year, received the award for Excellence in Community Engagement, RSC Pathways in July 2023 from the Refugee Studies Centre, RLRH, Oxford University.

Anziya A, B. A. (Hons) Economics, III year, was honored with the Additional Director General Award for unwavering dedication towards the organization by NCC Directorate on January 31, 2024.

Vanisha Pancholy, B. A. (Hons) Mathematics, II year, was awarded with the DST Inspire scholarship by the Government of India on July 7, 2023

Samiksha, B.A. (Hons) Journalism, II year, won the Silver Medal in Archery, at the Delhi Olympics on February 9-10, 2024.

Publications

Web of Science Indexed Journals

Dhillon, M., & Bhattacharya, S. (2023). Representations of mothers having children with disability in Hindi cinema: a feminist thematic analysis. *Disability & Society*, 1-23.

Trivathi V., Sethi A. (2023). Impact of foreign and domestic ETFs on the volatility and pricing-efficiency of constituents during turbulent and tranquil times: Indian evidence. *International Journal of Emerging Markets*, 18(11), 5498-5522.

Research Projects

Prof. Suman Sharma (Principal): Project entitled, 'Abandoned aged widows in shelter homes in India: A Study of their Socio-Economic Wellbeing and Percolation of Government Welfare Policies' funded by Indian Council for Social Science Research (duration) of ₹ 8 lakhs.

Mr. Zar Amrolia / Mr. Dorab Mistry Zoroastrian Trust Funds of Europe Inc., Dr Shernaz Cama , Parzor – TISS Academic Programme, ₹ 21 lakhs.

Dr Monika Singh Project entitled, 'Study of Hardy-type integral operators in weighted function spaces of Lebesgue type' sanctioned by National Board for Higher Mathematics (NBHM) for ₹ 3,07,500/-.

Prof. Smita Sahgal and Dr Pankaja Ghai Project entitled, 'Recalibrating the Paradigm of Kshatriya Masculinity in Shantiparva of the Mahabharata: A Reading Against the Grain'. Dr Bharat Ram Research Grant of ₹ 2 lakhs.

Dr Anjali Bhatia and Dr Rina Kashyap Project entitled, 'Citizenship and the University: Case Study of Four Constituent Colleges of the University of Delhi'. Sanctioned by Dr Bharat Ram Research Grant of ₹ 2 lakhs.

Seminars Organized

Dr. Arvind Virmani, Member of NITI Aayog and former President of the Forum for Strategic Initiatives (FSI, Delhi), Analyzing India's economic performance and growth trends over the past decade, April 08, 2024.

Dr. Sanjeev Sanyal, Member of the Economic Advisory Council of the Prime Minister and Secretary to Government of India, Process Reforms as public policy: Big impact from small changes, February 22, 2024.

Ms Sukriti Likhi, IAS, Additional Secretary and Financial Adviser to the Ministry of Steel, Government of India, India's Steel Sector: Position and Prospects, February 29, 2024.

Dr. Joy LK Pachau, Professor at Centre for Historical Studies, Jawaharlal Nehru University, New Delhi, Beyond Borders: Exploring Transnational Histories in North-East India during the British Era, January 25, 2024.

Conferences Organized

Conference entitled, 'COMQUEST 2024' was organized on March 12, 2024 and supported by Global Risk Management Institute.

Conference entitled, 'Age of Reckoning: Can India upgrade itself as the global manufacturing sector powerhouse?' was organized on March 21, 2024.

Conference entitled, 'Juxtapose 2023- By the People, For the People' was organized on April 6, 2023.

Conference entitled, 'INDIA'S GROWTH TRAJECTORY: ILLUSION OR ATTAINABLE FUTURE ?' was organized on April 1, 2023.

Conference entitled, 'Moments 23 -Integrating Differences' was organized on 05-04-2023.

Seminar/Conference Presentations (National / International)

International

Anshul Kumar presented a paper entitled, 'Cost optimization and analysis of multi-server queue with working vacation and imperfect service' at the SIAM Conference on Optimization (OP23), held at the Sheraton Grand Seattle, Seattle, USA during May 31-June 3, 2023.

Arunima Ray presented a paper entitled, 'Coming Out as Dalit and Made in Heaven: The Erasure of Dalit Identity, Dalit Representation and Caste Performativity' at the Pramana International Research Conference organized by Symbiosis Centre for Media and communication, Symbiosis International (Deemed) University, Pune on 19 and 20 January, 2024.

Arunima Ray presented a paper entitled, 'Women and Violence in Urban Spaces: Modalities, Spaces and Narratives' at the 17th Annual Congress of the Asian Political and International Studies Association (APISA 2023), held at Warmadewa College, Bali, Indonesia from June 29 – July 1, 2023.

Maya Joshi presented a paper entitled, 'Sankrityayan's Ghumakkari and/as a History of Mobility' at and International Conference on 'Asia on the Move: Histories of Mobility and the Making of Asia' organized by the International Research Division, India International Centre, New Delhi from February 23-24, 2024.

Megha Dhillon presented a paper entitled, 'The whole universe resides within you - self partnering as a choice among Indian women' at the World Women Studies Conference held on March 7-9, 2024 (Online).

Megha Dhillon presented a paper entitled, 'Functionality is something I can't control, appearance is something that I can: Discourses on Disability, Bodies and Beauty Ideals among Young Indian Women' at the Global South Critical Psychology Conference, hosted by Arden University, UK on May 26, 2023.

Shatarupa Bhattacharya presented a paper entitled, 'I think disability for me is something that's very crucial to my identity - Conceptions of Disability among young Indian Women' at the World Women Studies Conference held on March 7-9, 2024 (Online).

Wafa Hamid presented a paper entitled, 'Outsiders at Home: (Be)longing, Dislocation and Identity in Annie Zaidi's Bread, Cement, Cactus' at the Muslim Women's Popular Fiction (MWPF) AHRC Research Network International Conference, held (hybrid) at University of Birmingham, Birmingham, UK, from September 5-9, 2023.

National

Maya Joshi presented a paper entitled, 'Buddhism and Modernity' as Panelist/Distinguished Guest Speaker at Ashadha Purnima Dharma Chakra Day Celebrations at Buddhavanam, Nagarjunasagar, Telangana, organised by The Buddhavanam Project on July 3, 2023

S. K. Pandey presented a paper entitled, 'The Rights of Person with Disabilities Act 2016: Post-Implementation Analysis' in a two day National Seminar on 'The Rights of Person with Disabilities Act 2016, Potentiality and Challenges' organized at the Dr. Ambedkar International Center, Ministry of Social Justice and Empowerment, Government of India, New Delhi, on January 30-31, 2024.

National/International MoUs Signed

MoUs signed with - Macquarie LaTrobe, National University of Singapore, Sciences Po Fukuoka Women's University.

Other Inter-Institutional Collaboration

In 2023-24 college had collaborative exchanges with Macquarie University, Australia, University of Melbourne, Australia, Schwarzman Scholars, University of Kent, Virginia Tech University, USA, King's College, London and La Trobe University, Australia.

Student under Exchange Program (Inbound/Outbound)

Six students participated in the Macquarie Study Tour in November 2023.

Placement Details (Number and percentage of students placed)

Number of students placed: 157.

Number of Companies visited for campus recruitment: 50+ companies

Companies like LEK Consulting, Hindustan Unilever, Bank of America, Boston Consulting Group, Kepler Cannon, DE Shaw, Nomura, Praxis Global Alliance, Indus Insights, ZS Associates, Blackstone, BlackRock, Accenture, CleanMax, Redseer Strategy Consultants, Samagra Governance, Trinity Life Sciences, Barclays, NTT Data, Sprinklr, Wells, Fargo, ABinBev etc. Prominent industries and roles- Consulting, Finance, Human Resources, Marketing, Risk Management, Audit, Sales etc.

Extension and Outreach Activities

NSS unit of the college is a flourishing body of dedicated student volunteers and educators who drive meaningful social transformation. Our multi-faceted approach focuses on six vital areas: rural women's empowerment, social entrepreneurship, animal welfare, elderly care, education, and disability rights. NSS commenced the tenure by celebrating the International Yoga Day with an engaging workshop, led by Yogacharya Kajal. The Kargil Vijay Diwas Celebration featured distinguished speakers such as Lt.Cdr.Bijay Nair. NSS, in accordance with the Government of India's mandate also orchestrated the "Ek Tareekh Ek Ghanta Campaign " to instill and promote good hygiene and sanitation practices among volunteers.

NSS unit also commemorated the Swachhta Pakhwada Campaign between September 25, 2023 and November 2, 2023. A host of events were organised such as documentary screenings, group discussions, upskilling workshops, cleanliness drives and reading circles. Additionally, training workshops were conducted for over 700 volunteers, focusing on the 6 diverse interventions of NSS. Collaborating with 'Mark Your Presence', college successfully registered more than 200 voters for the SVEEP program under the Election Commission.

College celebrated three annual festivals- Kala (An art festival for the beneficiary children based on "Buniyaad ki Pehchan"), Noor (NSS mela based on the theme "Jashn-e-Abha: Celebration of NSS's guiding light"- "Not me but you") benefitting various NSS projects and also Nexus, a two day academic convocation themed "Realities of Reels". A seven day event, 'Tails of Love', was also organised by the animal welfare project team. All projects under NSS remained active, hosting insightful sessions.

Library Development

LSR Library has installed open source software KOHA. Koha is a web-based ILS, with a SQL database back end with cataloguing data stored in MARC and accessible via Z39.50 or SRU. The user interface is

very configurable and adaptable and has been translated into many languages. Koha has most of the features that would be expected in an ILS, including:

Various Web 2.0 facilities like tagging, comment, social sharing and RSS feeds

Union catalog facility

Customizable search

Online circulation

Bar code printing

Patron card creation

Report generation

Patron self-registration form through OPAC

All the library staff were well equipped with KOHA by providing the hands-on training sessions.

Circulation information (books issued and returned by the users) is sent to each user of the library on their respective email-id. Around 1000 books were well catalogued with their subject headings in the KOHA software. Library every year organizes orientation programme for students. This year also library organized orientation programme for students and librarian discussed with them how to access online databases. Library has developed advanced stage Article indexing database. To keep users abreast with information library is providing Current Awareness Service and Selective Dissemination of Information service timely. Library also keep on organizing various book exhibitions on topics like women empowerment, freedom smuggle etc. for their users.

Faculty Strength

Senior Professor/Professor/Director: 6

Associate Professor: 47

Assistant Professor: 96

Ad-hoc: 7

Financial Allocation and Utilization

Grant Allocated: ₹ 72,18,00,000 /-

Grant Utilized: ₹ 71,70,76,000 /-

Other Significant Information

The college organised talks by educationists like Dr. Menah Pratt, Professor of Education at Virginia Tech University on February 13, 2024 and a lecture by Prof. Adam Fagan, King's College, London.

LAKSHMI BAI COLLEGE

Major Activities and Achievements

Lakshmibai College for women instituted fifteen interdisciplinary Centres some of which include innovation, constitutional values, mental well-being, environment conservation, entrepreneurship, promotion of languages, social responsibility, inclusive education and digital empowerment. In respect of Indigenous Knowledge System, the college celebrated Ayodhya Mahotsav with the theme “Tere Mere Sabke Raam” and a Twenty-one-day recitation of Ramcharitmanas and culminating in Yagya on January 22, 2024. College organized Bharat-UK G-20 Heritage Meet in association with Culture Council of University of Delhi. A National Seminar was also organized on ‘India’s G20 Presidency: Accelerating the Achievements of the SDGs’ which was inaugurated by the Hon’ble Minister of State for External Affairs and Culture, Smt. Meenakshi Lekhi. A new Academic Block, Vikram Shila, was recently inaugurated. Our students participated in BFA Women’s Baseball Asian Cup 2023-24 held in Hongkong and a para-athlete secured second position in the Para Asian Badminton Championship. Committed towards sustainability, our students and faculty participated in the Yamuna mission and the filtration of the Sahibi river.

Honours/Distinctions

Faculty

Prof. Pratyush Vatsala, Principal of the college, was conferred with following awards: Neelkanth Samman Award for outstanding contribution in Academic Excellence by CSSEIP, Jawaharlal Nehru University and DAPSA in the year 2023; Spiritual and Value Education (SAVE) Award by the Spiritual and Value Education Summit on March 13, 2023; Academic Ascendancy Prize for Exemplary College Excellence by Bharatiya Vishwavidyalaya Parisangh, New Delhi, on December 29, 2023.

Dr. Vinay Kumar Mishra, Dr Pawan Kumar Singh and Dr Nidhi Balyan were also awarded with “Academic Ascendancy Prize for Exemplary College Excellence” by Bharatiya Vishwavidyalaya Parisangh, New Delhi, on December 29, 2023.

Dr Ruchi Mundeja worked as a Research Fellow at the Institute of English Studies, School of Advanced Study, University of London from December 2022 to June 2023.

Dr Ojaswini Hooda received Women’s and Independent Folklorists Sections Annual Meeting Award for 2023 instituted by American Folklore Society to present her research from the American Folklore Society Annual meeting held at Portland, Oregon, USA.

Students

The following students have secured distinctions in their respective Programmes: Binoy Kaur Ghai, B.Sc. (Hons) Home Science, was college topper with a CGPA of 9.46; Lavnya Nongthombam, B.Sc. (Hons) Mathematics was college topper with a CGPA of 9.41; Khushi Singhal, B. Com (Hons) was college topper with a CGPA of 9.32; Lavisha Mittal B.Sc. (Hons) Mathematics was college topper with a CGPA of 9.31; Anjali Kumari B. Sc (Hons) Home Science was college topper with a CGPA of 9.14.

Journals

Dr Bharti Chhibber. (2024). Jyoti. Annual College Magazine, 95.

Publications

Scopus Indexed Journals

Bagal, Y. S., Anand, M., Kumar, N., & Haobijam, J. W. (2023). Opinions and problems regarding various aspects of non-timber forest products (NTFP): A study on NTFP collectors of Shivalik range of Jammu region.

Bharat, A. P., Singh, A. K., & Mahato, M. K. (2024). Heavy metal geochemistry and toxicity assessment of water environment from Ib valley coalfield, India: Implications to contaminant source apportionment and human health risks. *Chemosphere*, 352, 141452.

Kumar, R., Singh, B., Pandey, S. S., & Pani, B. (2023). Recent Developments in the Detection of Zn²⁺ Ions Using Schiff Base Probes. *SynOpen*, 7(04), 703-717.

Kumari, A., Ranjan, P., Anwar, W., Kaur, D., Upadhyay, A. D., Malhotra, A., & Vikram, N. K. (2023). A Cross-Sectional Survey of 505 Postpartum Women to Assess Lifestyle-Related Behaviour, Barriers, and Myths Affecting Postpartum Weight Retention and Its Management. *The Journal of Obstetrics and Gynecology of India*, 73(5), 397-405.

Kumari, A., Ranjan, P., Vikram, N. K., Kaur, D., Balsarkar, G., Malhotra, A., ... & Guleria, R. (2023). Evidence and consensus-based clinical practice guideline for the management of obesity and overweight in postpartum women: An AIIMS-DST initiative. *Journal of Family Medicine and Primary Care*, 12(5), 812-855.

Mehtab, W., Agarwal, A., Chauhan, A., Agarwal, S., Singh, A., Ahmad, A., Bhola, A., Singh, N., Ahuja, V., Malhotra, A. and Makharia, G. (2024). Barriers at various levels of human ecosystem for maintaining adherence to gluten free diet in adult patients with celiac disease. *European Journal of Clinical Nutrition*, 78(4), 320-327.

Shukla, A., Dogra, D. K., Bhattacharya, D., Gulia, S., & Sharma, R. (2023). A comparative study on the viewership of different professional leagues in India. *The International Sports Law Journal*, 23(3), 322-339.

Shukla, A., Dogra, D. K., Bhattacharya, D., Gulia, S., & Sharma, R. (2023). Impact of COVID-19 outbreak on the mental health in sports: a review. *Sport Sciences for Health*, 19(4), 1043-1057.

Tiwari, A. K., Singh, S. K., Singh, A. K., Giri, S., & Mahato, M. K. (2023). Groundwater Geochemical Investigation and Quality Assessment for Drinking and Irrigation Uses in Sohagpur Coalfield, Madhya Pradesh, India. *Environmental Forensics*, 1-16.

Verma, A., Malhotra, A., Ranjan, P., Kumari, A., Chopra, S., Khan, M. A., ... & Ahuja, M. (2024). A comprehensive evaluation of predictors of obesity in women during the perimenopausal period: A systematic review and narrative synthesis. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 18(1), 102933.

Research Projects

Prof Anita Malhotra, Project entitled, 'Development and Evaluation of an Individualized Weight Management Module for Young Adults' sanctioned by Indian Council of Medical Research for ₹ 56,20,348/-.

Prof Anita Malhotra, Project entitled, 'Development and Evaluation of a Women Centric Weight Management Module' sanctioned by DST SEED for ₹ 34,28,560/-.

Dr Shwetank Pandey, Project entitled, 'GIS based SWOT Analysis of the Swachh Bharat Abhiyaan in rural and Urban Delhi' Development and Evaluation of a Women Centric Weight Management Module' sanctioned by Indian Council for Social Science Research for ₹ 14,00,000/-.

Dr Sunil Kumar Mishra, Project entitled, 'Pradhanmantri Sansadiya Chetra ke Pradhan Mantri Awas Yojna ke Labharthi ki Arthik avam Samajik Parssthiti ka Samaj Sastriya Adhyan' sanctioned by Indian Council for Social Science Research for ₹ 4,00,000/-.

Dr Aditi Narayani Paswan, Project entitled, 'Social and Cultural Entrepreneurship, Role of SHG and Micro Financing Units in Empowerment of Women' sanctioned by National Commission of Women for ₹ 14,46,500/-.

Seminars Organized

Two-day long, Indian Council for Social Science Research sponsored, National Seminar entitled, 'India's G20 Presidency: Accelerating the achievement of sustainable development goals' was organized on January 31, 2024. Following speakers provided their valuable inputs during the Seminar:

Smt. Meenakshi Lekhi, Hon'ble Minister of State for External Affairs and Culture, Government of India;

Prof. Sangit Kumar Ragi, Head and Professor, Department of Political Science, University of Delhi;

Prof Ashwini Mahajan, National Co-Convener, Swadeshi Jagaran Manch Prof Harsh V Pant, King's College, London.

Prof. Vipin Kumar Aggarwal, Principal, Sri Aurobindo College;

Prof. Sanjeev Kumar Tiwari, Principal, Maharaja Agrasen College;

Prof. B. W. Pandey, Chairman, Lakshmibai College;

Prof. Hem Chand Jain, Principal, Deendayal Upadhyaya College;

Prof Mamta Sharma, Principal, Aditi Mahavidyalaya.

Seminar entitled, 'Contemporary readings of Natyashastra and its philosophical significance' and sponsored by Indian Council of Philosophical Research (ICPR) was organized on May 12, 2023. Following speakers provided their valuable inputs during the Seminar:

Prof. Neerja Gupta, Vice Chancellor, Sanchi University of Buddhist-Indic Studies;

Prof. Kapil Kapoor, Former Pro Vice-Chancellor, Jawaharlal Nehru University;

Prof. Sonal Mansingh, Member of Rajya Sabha;

Prof. Deepti Bhalla (renowned for Mohiniyattam and Carnatic Music), Former Dean and Head, Department of Music, University of Delhi;

Prof. Dhananjay Singh, Professor at Centre for English Studies, Jawaharlal Nehru University and Member Secretary, Indian Council of Social Science Research.

Seminar entitled, ‘Rashtra vis-a-vis Nation: Rethinking Cultural Nationalism’ and sponsored by Indian Council for Social Science Research was organized on February 29, 2024. Following were the Resource Persons for the seminar:

Prof. K. G. Suresh Vice Chancellor, Makhanlal Chaturvedi University, Bhopal;

Shri J. Nandakumar, Convenor, Pragya Pravah;

Prof. Arun Kumar Bhagat, Member, Bihar Public Service Commission (BPSC);

Prof. Chandan Kumar Chaube, Department of Hindi, University of Delhi;

Prof. Divya Tiwari, Zakir Hussain College.

Seminar entitled, ‘Religion, Morality and Diversity of Human Life’ and sponsored by Indian Council of Philosophical Research (ICPR) was organized on March 19, 2024. Following were the Resource Persons for the seminar:

Shri. Bhagat Singh Koshyari, Former Governor of Maharashtra and Former Chief Minister of Uttarakhand;

Dr. H. R. Nagendra Chancellor, S-Vyasa;

Prof. Sachchidanda Mishra, Member Secretary ICPR, Delhi;

Prof. H. S. Prasad, Former Dean and Head Department of Philosophy, University of Delhi;

Prof. V. Sebastian, Panjab University Chandigarh;

Prof Laxmikanta, Padhi University of North Bengal Siliguri.

Seminar entitled, ‘Bharat-UK Heritage Meet’ was organized on November 29, 2023 with following Resource Persons for the seminar:

Prof. Paramjit, Vice Chairperson, Steering Committee, Culture Council, University of Delhi;

Smt. Naaz Rizvi, Director, National Museum of Natural History, Ministry of Environment, Forest and Climate Change, Government of India;

Sri Anand Pendharkar, CEO and Ecologist, Sprouts;

Smt. Madhavi Advani, Founder Luxury Cobiz;

Sri Anoop Lather, Chairperson, Steering Committee, Culture Council, University of Delhi;

Prof. Ravinder Kumar, Dean Culture Council, University of Delhi.

Seminar/Conference Presentations (National / International)

National

Alka Harneja presented a paper entitled, ‘Newspaper coverage analysis of women premier league (WPL) 2023 as compared to other sports’ during the NCW sponsored National Seminar on Women Empowerment through Sports: Issues and Challenges organised by Campus Law Centre, University of Delhi on July 7-8, 2023.

Bharti Chhibber was invited as a Plenary Speaker to present her work on ‘Psychology for Sustainable Development’ during the National Academy of Psychology Convention, GITAM, Visakhapatnam on February 14-16, 2024.

Francis H. Ariina presented a paper entitled, 'Reading Linguistic Situation in Northeast India: Prof. Mrinal Miri's Perspective on Tribes and Language' during a Seminar organized by Department of Philosophy, University of Delhi on December 19, 2023.

Gayatri presented a paper entitled, 'Credibility in Green Advertising' in an International Conference on India @ 2030: Third Largest Economy in the World, organized by the Department of Commerce, Jesus and Mary College on January 18-19, 2024.

Lata Sharma presented a paper entitled, 'Promotion of Gender Equality through Economic Benefits: A descriptive study with special reference to Indian Cricket' during the two-day National Seminar on Women Empowerment through Sports: Issues and Challenges organized by Campus Law Center, Faculty of Law, University of Delhi and sponsored by National Commission for Women from July 7-8, 2023.

Meenakshi Anand presented a paper entitled, 'National Seminar on Women Empowerment through Sports: Issues and Challenges' sponsored by National Commission for Women organized by Campus Law Centre, Faculty of Law, Univ. of Delhi on July 7-8, 2023 at Conference Centre, University of Delhi.

Ratnakar Kumar presented a paper entitled, '26/11 Attack: Understanding through Cathy and Levy's The Siege and Neeraj Pandey's a Wednesday' at the National Seminar on War – An Identarian Fulcrum organized by Department of English, Motilal Nehru College, University of Delhi under the aegis of IQAC held on April 25-26, 2023.

Seema Kaushik Sharma presented a paper entitled, 'Sports-Driven Sustainable Lifestyles: Nurturing Global Development' during a two-day National Seminar on India's G20 Presidency: Accelerating the Achievement of the Sustainable Development Goals (SDGs) sponsored by ICSSR on January 30-31, 2024. Tripti Deo, presented the paper titled, 'Charans: The Lessor-known Traders and Businessmen of Rajasthan' in the Delhi History Congress held on February 4-6, 2024.

National/International MoUs Signed

MoUs signed with Universities and Colleges under the aegis of 'Vidya Vistar Scheme' with the following: DHS Kanoi College Dibrugarh, Assam; Patkai Christian College, Dimapur, Nagaland; Barrackpore Rastraguru Surendranath College, West Bengal; Sri Guru Ram Rai (PG) College, Dehradun, Uttarakhand; K.S. Saket P.G. College, Ayodhya.

Other Inter-Institutional Collaboration

START-UP Accelerator Program held on October 27-28, 2023 in collaboration with UDHMODYA Foundation.

Workshop on Learning Faster, Better, and Smarter in the Age of GenAI was organized on October 13, 2023 in collaboration with NIIT.

Rashtriya Poshan Maah was organized in association with Nutrition Society of India, September 26, 2023.

IQAC collaborated with Indian Institute of Public Administration (IIPA) and Centre for Promotion of Research, Quality Education and Empowerment, Centre for Fostering Social Responsibility and Community Engagement to organize Blended Capacity Building Program for Stakeholders of River Ganga on February 12, 2024.

Centre for Inclusive Education and Affirmative Action organized a symposium on Entrepreneurship, Women and Margins in collaboration with CSSEIP, School of Social Sciences, Jawaharlal Nehru

University and Dalit Adivasi Professors and Scholars Association (DAPSA). Shri Abbaiah Narayanswamy, Hon' Minister of State and Social Justice & Empowerment was invited as the Chief Guest. The Centre organized symposium on July 18, 2023 on Indian Constitution and Social Inclusion: A beacon of Equality and Hope in collaboration with Jawaharlal Nehru University and Dalit Adivasi Professors and Scholars Association (DAPSA). A symposium was conducted on November 26, 2023 on "Remembering Santhal Liberation Movement: A Commemorative Symposium" in collaboration with Centre for the Study of Social Exclusion and Inclusive Policy, Jawaharlal Nehru University..

Placement Details (Number and percentage of students placed)

Number of students placed: 1.

Number of Companies visited for campus recruitment: 1.

Extension and Outreach Activities

Going further towards community outreach and social responsibility, Institution is engaged in projects like 'Stitching the change' to generate livelihood and self-reliance among marginalised women of the neighbourhood village, creating awareness under Mahatma Gandhi Drug-free India initiative, Khadi Mahotsav, Rashtriya Poshan Mah, Blood Donation Camp, Anemia Awareness Camp, training in IPR and counselling sessions showcasing college's commitment to the welfare of the society beyond college. Our institution's brand Parampara was well appreciated at the Global Millet Exhibition and Conference, Indian Agricultural Research Institute, Delhi. We are not only creating awareness on sustainable development goals through activities on Earth and Water Days but making it a part of our essential being. Students and faculty have enthusiastically participated in the Yamuna mission and the filtration of the now forgotten Sahibi river in alignment with college core values and vision.

Library Development

Library has a rich collection of approximately 65000 print books in the General and Text Book sections. Apart from this to keep the library users updated about the global activities library has subscribed 45 newspapers, journals and magazines. Rich collection of various reference sources such as Encyclopedias, Dictionaries, Atlas, Thirteen Language Learning Books (Bhartiya Bhasha learning), Yearbooks and Rare books etc. are also available. The library has a reading hall for the faculty as well as students to access reference books and another big reading hall with seating capacity of 120 students.

For visually impaired students, 225 Braille books, and other facilities are available in the library. Library Tickets and Library Identity Cards are computer generated for staff and students. OPAC (On-Line Public Access Catalogue) facility is provided for users. RFID Technology has also been used for the smooth functioning of the day to day work of the library. It also houses 22 computers for the faculty as well as students, where users can access E-resources. The library has accessibility to about 500 E-journals and 75000 E-books through a host of high quality electronic databases subscribed by Delhi University System (DULS) to its users. N-LIST database for college libraries subscribed by our library, which can be used by the users with his/her email ID and password given by library administrative free of cost. Library also subscribe DELNET (Developing Library Network) a major resource sharing library Network in India connecting more than 8100 institutions in 33 states in India and few other countries. Throughout the year the library organizes many activities and learning programs for its users including book fairs and orientation programmes.

Faculty Strength

Senior Professor/Professor/Director: 14

Associate Professor: 39

Assistant Professor: 120

Ad-Hoc: 1

Guests: 22

Financial Allocation and Utilization

Grant Allocated: ₹ 73,62,00,000/-.

Grant Utilized: ₹ 76,02,70,745/-.

MAHARAJA AGARSEN COLLEGE

Major Activities and Achievements

Maharaja Agrasen College was designated as a Nodal Centre by the Indian Space Research Organization to conduct the Space Science and Technology Awareness Training program that offers introductory-level training in space science and technology. An International symposium 'Cultural Communication in Networked Society' was held with Prof. Flavia Stara, University of Macerata, Italy as the keynote speaker. Workshops on 'Digital Film Production and Film Appreciation', 'Mithila Painting and Photography', Electronic Circuit Design, Data Science using Python', 'Skill Development', 'Yoga for Vasudhaiva Kutumbakam', 'Expressive Art Therapy', CPR in association with DDMA, Self-defense with DLSA and Delhi Police (East Delhi) were organized for holistic development of students. An interactive event on automotive journalism in collaboration with World is one news (WION), was organized to expose students to emerging areas of journalism.

Honours/Distinctions

Faculty

Dr. Indrani Das Gupta was awarded with Ph.D. degree on the topic 'Social Vision in Modern Indian Science Fiction: A Study of Selected Texts' from Department of English, Jamia Millia Islamia in April 2023.

Students

College toppers of various programmes include : Mahi Sahu, a student of B.Com. (Hons); Harshvardhan a student of B.Sc. Mathematical Science; Bhaskar Singh Rawat a student of B.Sc. Physical Science; Neha Rani a student of B.A.(Hons.) Journalism; Gagan Choudhary a student of B.A. Programme.

Journals

Indian Journal of Social Enquiry. (2021). *Indian Journal of Social Enquiry*. Maharaja Agrasen College, 13(1), 7-99.

Publications

Scopus Indexed Journals

- Aggarwal, N., Shukla, U., Saxena, G. J., Rawat, M., Bafila, A. S., Singh, S., & Pundir, A. (2023). Mean based relief: An improved feature selection method based on ReliefF. *Applied Intelligence*, 53(19), 23004-23028.
- Bhawna, Gupta, P., Rai, P., & Chauhan, A. (2023). Blockchain application in consumer services: A review and future research agenda. *International Journal of Consumer Studies*, 47(6), 2417-2450.
- Das, S., Kumari, V., Sehra, K., Gupta, M., & Saxena, M. (2023). On the double channel engineering of dual gate AlGaIn/GaN HEMTs for heavy ion sensing applications. *Micro and Nanostructures*, 182, 207653.
- Jiran Meitei, A., Mohapatra, B. B., Khundrakpam, B., Tawfeeq Alee, N., & Chauhan, G. (2024). Role of AI/ML in the Study of Autism Spectrum Disorders: A Bibliometric Analysis. *Journal of Technology in Behavioral Science*, 1-16.
- Meitei, A. J., Rai, P., & Rajkishan, S. S. (2023). Application of AI/ML techniques in achieving SDGs: a bibliometric study. *Environment, Development and Sustainability*, 1-37.
- Mittal, A., Pal, K., & Aggarwal, R. (2023). The Analysis of the Photogravitational R4BP Under the Combined Effect of Stokes Drag and Oblateness with Variable Mass. *The Journal of the Astronautical Sciences*, 70(6), 52.
- Mohapatra, B. B., Singh, A., & Meitei, A. J. (2024). Key Determinants of for-Profit Micro Finance Institutions Credit: A Study on Rural Manufacturing Households. *Institutions and Economies*, 105-128.
- Nath, J. P., Saxena, G. J., & Sharma, E. K. (2023). Silicon-based compact eight-channel wavelength and mode division (de) multiplexer for on-chip optical interconnects. *Applied Optics*, 62(24), 6380-6388.
- Neha, Sehra, K., Kumari, V., Gupta, M., & Saxena, M. (2023). Investigation of SiNx passivated dual field plate AlGaIn/GaN HEMTs on silicon carbide and sapphire substrates under radiation environment. *Silicon*, 15(14), 6215-6228.
- Rai, P., Gupta, P., Saini, N., & Tiwari, A. K. (2023). Assessing the impact of renewable energy and non-renewable energy use on carbon emissions: Evidence from select developing and developed countries. *Environment, Development and Sustainability*, 1-22.
- Rai, P., Mohapatra, B. B., Meitei, A. J., & Jain, V. (2023). Major determinants of bank profitability in India: A machine learning approach. *Global Business Review*, 09721509231184763.
- Rajkishan, S. S., Meitei, A. J., & Singh, A. (2024). Role of AI/ML in the study of mental health problems of the students: a bibliometric study. *International Journal of System Assurance Engineering and Management*, 15(5), 1615-1637.
- Rawat, M., Bafila, A. S., Kumar, S., Kumar, M., Pundir, A., & Singh, S. (2023). A new encryption model for multimedia content using two dimensional Brownian motion and coupled map lattice. *Multimedia Tools and Applications*, 82(28), 43421-43453.
- Sehra, K., Anand, A., Malik, A., Kumari, V., Gupta, M., Mishra, M., ... & Saxena, M. (2023). Efficacy of back barrier engineered II-gate InAlN/GaN high electron mobility transistors for high-power applications. *Journal of Physics D: Applied Physics*, 56(40), 405112.

Thushari, P. D., Aggarwal, N., Vajrobol, V., Saxena, G. J., Singh, S., & Pundir, A. (2023). Identifying discernible indications of psychological well-being using ML: explainable AI in reddit social media interactions. *Social Network Analysis and Mining*, 13(1), 141.

Tiwari, S., Tripathi, A., & Gaur, P. (2023). Navigating The Shifting Security Landscape: India And Central Asia's Crucial Alliance In The Face Of Taliban Resurgence. *Journal of Namibian Studies: History Politics Culture*, 38, 1494-1510.

Vajrobol, V., Aggarwal, N., Shukla, U., Saxena, G. J., Singh, S., & Pundir, A. (2023). Explainable cross-lingual depression identification based on multi-head attention networks in Thai context. *International Journal of Information Technology*, 1-16.

Yadav, P., Gupta, P., Rai, P., Naik, N., & Kasipandian, K. (2024). Exploring the Factors Influencing the Adoption and Continuous Engagement in Unlocking the Potential of Technology Driven Chatbots in Banking and Financial Institutions. *Eng. Sci*, 28(1054), 1054.

Yadav, S., Kumar, M., & Aggarwal, R. (2023). Analysis of Resonant Curve in a Synchronous Satellite under the Gravitational Effect of the Sun, the Moon, and the Earth Including Its Oblateness using Poincare Section. *Astronomy Reports*, 67(6), 638-654.

UGC Care-listed Journals

Arora, P., Saini, N., Meitei, A. J., Arora, H., & Goswami, A. (2023). Assessing asset quality using bank specific and macro linkages of non-performing assets: case of public sector banks in India. *International Journal of Indian Culture and Business Management*, 29(2), 151-167.

Kohli, R. (2023). Acharya Kautilya and His Saptang Theory of State. *Journal of Oriental Institute*, 72(3), 115-123.

Kohli, R. (2023). Gandhi aur Mahila Sashaktikaran: Saakshartase Swatantratak. *Journal of Asiatic Society of Mumbai*, 96(28), 59-68.

Kohli, R. (2023). The Role and Influence of the Indian Media in Shaping the Indian Diaspora Identity in South Africa. *Journal of the Maharaja Sayairao University of Baroda*, 56(8), 170-182.

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Rai, P. (2023). Impact of Covid-19 Pandemic on Investment Behaviour: A Study of Retail Investors in India. *Journal of Management and Technology*, 19(1), 23-26.

Rai, P., Gupta, P., & Parewa, B. (2023). Written communication and energy transfer to fix a dysfunctional team: a case study in conflict resolution in an educational institution. *LBS Journal of Management & Research*, (ahead-of-print).

Sethy, P. (2023). Debating over the Varna and Jati: A Socio-religious and Philosophical Inquiry. *Journal of the Oriental Institute*, 72(2), 1197-1215.

Sethy, P. (2023). Dr. Ram Manohar Lohia and His Idealistic Blueprint on Socialism. *NIU International Journal of Human Rights*, 10(7), 888-898.

Sethy, P. (2023). Elitist Theory of Democracy. *South India Journal of Social Sciences*, 21(1), 1208-1223.

Sethy, P. (2023). Significance of Studying International Relations in 21st Century. *Journal of the Asiatic Society of Mumbai*, 97(9), 1149-1167.

Sinha, M. (2023). In Search of A Feminaissance: Women in the Hot Seat of Kaun Banega Crorepati. *Journal of Media and Communication*, 7(2), 142-156.

Sinha, M. (2023). Performing Different Bodies: Self/Representations of Disability on Reality Television in India. *Fortell*, 48, 118-128.

Sinha, M. (2024). Flash Fiction in the English Language Classroom: A Tool for Teaching Reading and Writing Skills. *Language and Language Teaching*, 25, 43-50.

Web of Science Indexed Journals

Kumari, V., Nisa, K. M. U., Gupta, M., & Saxena, M. (2023). Influence of deep level trap charges on the reliability of asymmetric doped double gate Junctionless transistor (AD-DG-JLT). *Microelectronics Reliability*, 148, 115184.

Mittal, A., Pal, K., Suraj, M. S., & Aggarwal, R. (2023). Effect of Stokes drag in the restricted four-body problem with variable mass. *New Astronomy*, 103, 102042.

Pal, K. (2023). Synchronisation of the Restricted Charged Three Body Problem. *Nonlinear Dynamics and Systems Theory*, 23(4), 410-421.

Research Projects

Prof. Gitanjali Chawla – Project entitled, ‘A Study of the Relationship between Skills and Employability in Tourism and Hospitality Sector in J&K: Examining the Special Industry Initiative (SII) for J&K – UDAAN’ sponsored by Indian Council of Social Science Research for ₹ 11 lakhs.

Prof. Sanjeev Kumar Tiwari - Project entitled, ‘Mapping Trajectories of Indo – Central Asia Relations’ sponsored by Indian Council of Social Science Research for ₹ 7 Lakhs.

Dr. Niraj Kumar Singh - Project entitled, ‘Diver-city: A Virtual City Compendium Project (VCCP)’ sponsored by Indian Council of Social Science Research for ₹ 5 Lakhs.

Seminars Organized

Dr. Kanika Sharma, Director, Radiation Oncology, Dharamshila Super Specialty Hospital, Delhi, Breaking Barriers in Cancer Awareness’ October 11, 2023.

Dr. Sachin Kumar, Assistant Professor, Department of Computer Science, Cluster Innovation Centre, University of Delhi, Artificial Intelligence and Its Impact on Society, November 29, 2023.

Prof. Abha Shukla, Professor, Department of Economics, University of Delhi, Venture Capital and Private Equity, October 13, 2023.

Dr. Aaron Abraham, Head, Emergency Medical Centre, Hebron Medical Center, Kiryat Arba, Israel, Mapping Conflicts in West Asia: Challenges and Opportunities for India-Israel Relations, November 16, 2023.

Prof. Rita Singh, Chair, Molecular Endocrinology and Reproduction, Department of Zoology, University of Delhi Brains and Thoughts of Youth: Influence of Environment Steroids on Female Networks, October 11, 2023.

Conferences Organized

International Symposium on “Cultural Communication in Networked Society” was organized on November 16, 2023. Prof. Flavia Stara, an esteemed luminary hailing from the University of Macerata (UOM), Italy was the keynote speaker.

Seminar/Conference Presentations (National / International)

International

Anupama Jaidev presented a paper entitled ‘Shifting paradigms in current research’ as Keynote Speaker at the Online Multi-Disciplinary One Day International Conference on Research Methodology, organised by Rural Education Society of Mahatma Phule

Indrani Das Gupta presented a paper entitled ‘Mahabharata’ Diaspora across the Indian Ocean: A Home Away from Home’ at the ICSSR sponsored Interdisciplinary International Conference Mahabharata Epic Across Asia: Ancient Indian Knowledge System Transcending Spatio-Temporal Boundaries, organized by the Department of English, EFLU, Hyderabad from June 2-5, 2023.

Kishan Pal presented a paper entitled ‘Combined effect of Stokes drag, oblateness and radiation pressure in the R4BP with variable mass’ at the International conference on Advances in Pure and Applied Mathematics organized by Shyam Lal College, University of Delhi on February 8-10, 2024.

Maneesha and Prof. Praveen Kant Pandey presented a paper entitled ‘A Multi-Objective Path-Planning based on Firefly Algorithm for Mobile Robots’ at the International Conference on Advances in IoT and Security with AI (ICAISA 2023), on March 24-25, 2023.

Maneesha and Prof. Praveen Kant Pandey presented a paper entitled ‘Multiobjective optimization technique Based on Genetic algorithm and its applications’ at the International Conference on Advances in IoT and Security with AI (ICAISA 2023), on March 24-25, 2023.

Pratibha Rai presented a paper entitled ‘Sustainable Development: Issues and Challenges’ at the CMAI’s 8th International Conference Fostering Sustainable Development in a Globalized World: Issues and Challenges on January 9-11, 2024 organised in association with Azerbaijan State University of Economics, Baku.

National

Abha Mittal presented a paper entitled ‘New Education Policy and its Impact’ at the 4th Annual Conference of Indian Economics and Allied Sciences Association India 2.0: Vision for India 2047 at University of Kashmir, Srinagar on October 27-28, 2023. The conference was sponsored by ICSSR.

Indrani Das Gupta presented a paper entitled ‘Examining the Idea of Women through the Prism of Art and Architecture’ at the Newer Perspectives of Indian Historiography organized by CPDHE, Delhi University on October 14, 2023.

Pratibha Rai presented a paper entitled 'New Education Policy and its Impact' at the ICSSR sponsored 4th Annual Conference of Indian Economics and Allied Sciences Association India 2.0: Vision for India 2047 held at University of Kashmir, Srinagar on October 27-28, 2023.

National/International MoUs Signed

Two MOUs were signed with Indian Pollution Control Association to manage the wet waste and plastic waste recycling operations. One MOU was signed with Jaagruti, Paper Waste Recycling Operations.

Placement Details (Number and percentage of students placed)

Number of students placed: 135.

Number of Companies visited for campus recruitment: 9.

Extension and Outreach Activities

Through various initiatives and projects, the college NSS and NCC units encourage students to actively participate in community development and outreach activities, such as promoting literacy, environmental conservation, health awareness, and rural development. Students gain not only practical skills but also a deeper understanding of social issues and the importance of active citizenship.

NSS unit: Through experiential learning and reflection, NSS fosters a lifelong commitment to social change and community service among India's youth, thereby contributing to the country's progress and development. The NSS team at MAC is divided into several different units. These are as follows:

Agrani: Since its inception, Agrani has organised several events, online and offline, to promote gender equality by celebrating women's day through talks, social media campaigns, and seminars.

Samarthaya: Moving towards the goal of Global Equality, Samarthaya- the equal opportunity cell works towards the promotion of fairness and giving equal access and opportunities to all castes, creeds and to people of different abilities. The team has made arrangements for wheelchairs in campus, celebrated days of importance like Zero Discrimination Day, Youth Day and organised several events to help others and raise awareness.

Project ABHI and Nistholi: The MAC-NSS unit has adopted Baroji village in the Mewat district of the state of Haryana and Nistholi village in Ghaziabad District of Uttar Pradesh. The Agrasen Baroji Help Initiative helps in the development of these villages by organising plantation drives and raising awareness on social issues like education, equality, and government policies.

Pedal Power: MAC-NSS has a very active bicycle club known as Pedal Power. This club works for the promotion of health and a healthy lifestyle for all. The College has purchased around 40 bicycles for the said purpose.

Swachhta: Following the policy of Clean India, Green India, the club has dedicatedly worked for the promotion of cleanliness to save the environment. Organising regular cleanliness drives, promoting segregation of waste, collection of plastic and tetra pack containers are a small part of the big initiative and responsibility taken up by the unit. This team works for raising awareness in preserving ecological balance. A one-hour Swachhta (cleanliness) drive near the college community was organised which proved to be helpful in aiding a pristine environment. Students actively cleaned and beautified areas, fostering a sense

of civic responsibility. MAC NSS saw the culmination of a successful Cleanliness Drive in collaboration with G न Environmental Club on 1st October 2023, in honor of Mahatma Gandhi's birth anniversary.

Project Akshar: Under this project, volunteers provide quality education to the children from underprivileged sections of the society. Over 100 students from nearby colonies like Dallupura and Kondli are enrolled in the project and daily classes from Monday to Friday for two hours are held in the college premises. The team also holds regular parent teacher meetings. Furthermore, under this unit, all round development of the students is undertaken, like organising self-defence workshops, cleanliness seminars, events on promotion of equality, life and mental health, celebration of days like Children's Day, Annual Day, and organisation of health checkups. This is a self-funded project and raises money via Diwali mela and stalls for its daily expenses.

Aarogya: Aarogya is committed to instilling the values of sanitation and holistic well-being, and in the interconnectedness of physical and mental health, recognizing that a clean environment and a positive mindset are essential for a fulfilling life. Through health camps, blood donation drives, and 'Swacchta Abhiyans' organised in NSS, we actively engage with communities to improve hygiene standards and foster a culture of wellness.

National Cadet Corps: Our Girl National Cadet Corps have done us proud by continually engaging in community service and outreach programs. They participated in several camps, notably the EBSB DRDO Camp (May 9-13, 2023) to celebrate 25 years of successful conduct of India's nuclear tests amongst others. Several cadets participated in the Army Attachment Camp (September 12- 23, 2023). They were given an exposure to military drills, discipline, operational procedure and helps them to understand the challenges faced by soldiers. Participation in EBSB Jammu & Kashmir Camp from October 3 - 14, 2023 gave them exposure to the rich tapestry of experiences in the spirit of Ek Bharat Shrestha Bharat. And the EBSB from 26 October 2023 to 6 November 2023 in NCC Bhawan Rohini, Delhi included events on culture and awareness on national integration. The 7-day Workshop, held at the college's Wellness Centre from June 14-21, 2023 embodied the theme 'Yoga for Vasudhaiva Kutumbakam'. On October 26, 2023 the cadets shared about the elegance of Khadi, reflecting our commitment to sustainability and a nod to the timeless legacy of our nation and paid tribute to the artisans who have preserved the art of Khadi weaving, promoting eco-friendly fashion and a sense of pride in our roots. Blood donation Camp was organized by NCC of Delhi Directorate on March 7, 2024 on occasion of International Women's Day.

Library Development

Library at Maharaja Agrasen College offers an impressive collection of 45229 books across various disciplines. It currently subscribes to a total number of 14 newspapers and 25 magazines & print journals. It is also directly connected with DU Network, so users can easily access around 47000 e-journals on social science, sciences through various commercial databases. It has around 135000 e-books on (Log in) basis and 5000 e-journals on (Log in) basis. The audio-visual collection of the library has around 269 CD/DVDs. The library has full bibliographical data of books into machine-readable form on 'Koha' (Open Source Software). The Online Public Access Catalog (OPAC) too, has been in place to ensure easy access of books for the users. The library offers bibliography services, selective information dissemination services and plagiarism check services (via URKUND) on demand. It also offers reference service, both through Ready Reference Service as well as Long Range Reference Service. Kibo Scanner facility for PWBD students is also available. In this academic session, the Library Orientation programme for first year students enrolled in all the courses was conducted in two phases. First between September 17-23, 2023 and then for those

admitted later, from October 16-17, 2023. The annual book fair and exhibition was held on November 22, 2023. Close to 35 publishers and industry associates participated in the book exhibition cum sale.

Faculty Strength

Senior Professor/Professor/Director: 20

Associate Professor: 34

Assistant Professor: 5

Ad-Hoc: 32

Guests: 24

Financial Allocation and Utilization

Grant Allocated: ₹ 41,08,50,000/-

Grant Utilized: ₹ 41,61,40,974/-.

MAHARSHI VALMIKI COLLEGE OF EDUCATION

Major Activities and Achievements

The college celebrated several events of National and International importance during the academic year 2023-24. International Yoga Day was celebrated on June 21, 2023 with a theme ‘Yoga for Vasudhaiva Kutumbakam,’ that is, Yoga for the welfare of all the people. In addition, birth anniversary of Mahatma Gandhi as Gandhi Jayanti along with Lal Bahadur Shastri Jayanti, which is also celebrated as the International Peace Day all across the world, was organized in the college. During these two days, special assemblies were conducted. To mark the adoption of the Constitution of India, National Constitution Day or Constitution Day of India was celebrated on November 26, 2023. Birth Anniversary of Sardar Vallabhbhai Patel was observed as ‘Rashtriya Ekta Diwas’ (National Unity Day) on October 31, 2023. The college observed Vigilance Awareness week from October 30, 2023 to November 5, 2023. Awareness campaign were organized for the students regarding prevailing corruption practices in various sectors of the economy. A pledge was undertaken by the staff and students of the college restrict themselves in any such corrupt act and to report the same to the respective authority. College commemorated the 75th Republic Day marked with the hoisting of the Tricolour and the celebration of unity in diversity with great enthusiasm and patriotic fervor. Faculty members, staff, and students, gathered to pay homage to the sacrifices of freedom fighters and celebrate the national festival of India. International Women’s Day was celebrated at Maharshi Valmiki College of Education and a special assembly was conducted on March 18, 2024.

Honours/Distinctions

Students

Kavneet Kaur, Nikita Jain, Ruchika Gautam, Amit Gangwar, Arun from B.Ed. programme have achieved the highest marks across all courses in the college in the academic year 2022-23.

Seminar/Conference Presentations (National / International)

International

Meenakshi Chawla presented a paper entitled, 'A case for using case-based pedagogy in pre-service teacher education' during an International Seminar cum AIAER Annual Conference on Reconstruction of Education for Sustainable Tomorrow held on November 9-11, 2023.

National

Meenakshi Chawla presented a paper entitled, 'Case-Based Pedagogy: Experiences of B.Ed. Student-Teachers' during the 13th National Conference on the theme, "Transforming Higher Education for Sustainable Development: Innovations, Challenges, and Opportunities" held at GRDCE, Delhi on November 21, 2023.

Library Development

The college library has been integral part of ecosystem of Maharshi Valmiki College of Education College. It is one of the core academic resource for the benefit of students and faculty. In the post pandemic scenario, the demand for electronic resources by library users has increased many fold. College caters to the evolving need of today's tech-savvy society. It focuses in adopting and expanding digital need of students and faculty members. Reading materials, as per the need of users, were filtered and delivered to users through email. The electronic resources are not only enhancing access to knowledge but also promoting lifelong learning and digital literacy.

Faculty Strength

Senior Professor/Professor/Director: 5

Associate Professor: 4

Assistant Professor: 1

Ad-hoc: 3

Guests: 7

Financial Allocation and Utilization

Grant Allocated: ₹ 10,50,00,000 /-

Grant Utilized: ₹ 8,56,24,000 /-

MAITREYI COLLEGE

Major Activities and Achievements

Maitreyi College, accredited A++ by NAAC and ranked 36 by NIRF, has bagged the following distinctions: Value-Based Academic Achievement Award, 202; Establishment of Skill Center 'Atharvan' with a seed funding of ₹ 8 Lakhs from University of Delhi; and a National Environmental Education and Awareness Award, 2023. The cultural societies of the college bagged 123 prizes in inter-college and inter-university

competitions. College was a recipient of 14 prizes including First Prize for the Best College Garden, at the Annual Flower Show 2024 of University of Delhi.

College has designed an indigenous mobile app “UniWay”, to make the college inclusive and accessible. Twelve departments curated and delivered short-term courses benefiting 400 students across India in flip mode. The college was a part of the Accessibility Audit Team, Supreme Court of India.

The organizing team of Divya Utsav ‘24 participated in the Purple Fest ‘24 at the Rashtrapati Bhavan. ‘Chatraka: Mushroom Haven’ is a startup for the cultivation of mushrooms. Nutribiom– an organic farm established in collaboration with the HCL Foundation.

Honours/Distinctions

Faculty

Dr. Jyotsna Wasan was a recipient of NIH Postdoctoral Visiting Program Award at the National Library of Medicine, National Institute of Health, Department of Health and Human Services, USA. Award-value: 91000 USD p.a.

Prof. Pradeep Rai, Librarian, received DLA- Shana Vashist Outstanding Leadership Library Award 2023, by the Delhi Library Association

Dr. Smriti Singh, NSS Coordinator contributed to the Accessibility Audit Team of the Supreme Court of India. She was felicitated by the Chief Commissioner for the Differently Abled, Delhi at the ‘Divya Utsav’ 2023 and 2024 (Delhi Government). She also bagged Astitva Samman for her achievement in the special category by the PHD Commerce Welfare Foundation.

Dr. Pramod Kumar Singh was appointed Adjunct Professor, School Indic Studies, Institute of Advanced Sciences, USA.

Dr Ankita Sehrawat, an Assistant Professor in the Department of Botany was awarded the Young Environmentalist Award for outstanding contributions in Environmental Physiology and Proteomics, 2023 during the 4th World Environment Summit, ESDA (Environment and Social Development Association) held from November 4-6, 2023.

Dr M Tianla, a faculty of English Department bagged first Runner-up award in Hackathon competition for promoting bi-lateral relationship between Thailand and India on September 26, 2023 by Thailand - India Business Information Centre, Royal Thai Embassy) In New Delhi..

Students

Following students were the college toppers: Gargi Singh, B.Sc. (Hons) Botany III year with 97.7%; Manju B.Sc. (Hons) Mathematics III year with 97.43%; Aahana Tanwar B.Sc. (Hons) Economics II year with 96.4%; Sarita, B.Sc. (Hons) Physical Science with Computer Science III year with 95.61% ; Uma Rani B.Sc. (Hons) B.Sc. (Hons) Chemistry III year with 95%.

Journals

Vantage: Journal of Thematic Analysis. Centre for Research, Maitreyi College, Bapu Dham Complex, Chanakya Puri, New Delhi-110021, 4(1), 1-79. Editor-in-Chief: Prof. Haritma Chopra; Managing Editors: Dr. Gopi Devdutt Tripathy, Dr. Brototi Roy, Dr. Meena Yadav

Publications

Scopus Indexed Journals

- Agarwal, N., Mohanty, S. N., Sankhwar, S., & Dash, J. K. (2023). A Novel model to predict the effects of enhanced students' computer interaction on their health in COVID-19 pandemics. *New Generation Computing*, 41(3), 635-668.
- Alam, M. P., Manchanda, G., & Khan, A. (2023). AN ε -UNIFORMLY CONVERGENT METHOD FOR SINGULARLY PERTURBED PARABOLIC PROBLEMS EXHIBITING BOUNDARY LAYERS. *Journal of Applied Analysis and Computation*, 13(4), 2089–2120.
- Ali, H., Nasreen, R., Arneja, N., & Jaggi, C. K. (2024). Periodic inventory model with controllable lead time and back order discount for decaying items. *Opsearch*, 1-31.
- Anand, S., Hallsworth, J. E., Timmis, J., Verstraete, W., Casadevall, A., Ramos, J. L., ... & Timmis, K. (2023). Weaponising microbes for peace. *Microbial Biotechnology*, 16(6), 1091-1111.
- Antil, S., Abraham, J. S., Sripoorna, S., Maurya, S., Dagar, J., Makhija, S., ... & Toteja, R. (2023). DNA barcoding, an effective tool for species identification: a review. *Molecular biology reports*, 50(1), 761-775.
- Arora, A., Kumar, S., Khatri, V., Prasad, A. K., Chhatwal, R. J., & Kumar, S. (2024). Recent advances in the synthesis and application of C-2-Formyl glycals. *Synthesis*, 56(06), 890-905.
- Aslam, M., Singh, M. B., Singh, P., Pandey, G., Kumar, A., Singh, S., ... & Kumari, K. (2024). Impact of functional group positioning in the anion of ionic liquids on aqueous solubility: a study through DFT calculations. *Ionics*, 30(2), 875-887.
- Begum, T., Manchanda, G., Khan, A., & Ahmad, N. (2023). On numerical solution of boundary layer flow of viscous incompressible fluid past an inclined stretching sheet in porous medium and heat transfer using spline technique. *MethodsX*, 10, 102035.
- Bhardwaj, M., Mishra, P., Badhani, S., & Muttou, S. K. (2024). Sentiment analysis and topic modeling of COVID-19 tweets of India. *International Journal of System Assurance Engineering and Management*, 15(5), 1756-1776.
- Bhatla, S. C., Ranjan, P., Singh, N., & Gogna, M. (2023). Pure biochemicals and nanomaterials as next generation biostimulants for sustainable agriculture under abiotic stress—recent advances and future scope. *Plant Signaling & Behavior*, 18(1), 2290336.
- Chaudhary, A. (2023). Odyssey of Deep Eutectic Solvents as Sustainable Media for Multicomponent Reactions: An Update. *Mini-Reviews in Organic Chemistry*, 20(2), 156-189.
- Chaudhary, A., Mathur, D., Gaba, R., Pasricha, R., & Sharma, K. (2024). Greening up organic reactions with caffeine: applications, recent developments, and future directions. *RSC advances*, 14(13), 8932-8962.
- Chauhan, N., Chauhan, S., Garg, V., Mallick, I., Sharma, S., & Sisodia, R. (2023). Efficacy of priming agents on seed germination and plant growth under salt stress in *Vigna radiata*. *Legume Research*, 46(9), 1225-1232.
- Chuphal, B., Rai, U., & Roy, B. (2024). Exploring the possible role of estradiol in the regulation of reproductive phase-dependent expression of NOD-like receptors in female *Channa punctata*. *Aquaculture International*, 32(1), 709-724.

- Chuphal, B., Sathoria, P., Rai, U., & Roy, B. (2023). Crosstalk between reproductive and immune systems: the teleostean perspective. *Journal of Fish Biology*, 102(2), 302-316.
- Chuphal, B., Sathoria, P., Rai, U., & Roy, B. (2023). Exploring the effect of dihydrotestosterone on nucleotide-binding and oligomerization domain-like receptor expression in spotted snakehead *Channa punctata* (Bloch 1793). *Journal of Fish Biology*, 103(6), 1476-1487.
- Chuphal, B., Sathoria, P., Rai, U., & Roy, B. (2024). Sexual dimorphism in NLR transcripts and its downstream signaling protein IL-1 β in teleost *Channa punctata* (Bloch, 1793). *Scientific Reports*, 14(1), 1923.
- Dobhal, S. P., Pathak, T. K., Sharma, V., Singh, R. P., Singh, S. K., Jassal, P. S., & Johar, R. (2023). Performance evaluation of guar gum and conventional binders based fire-extinguishing aerosol-forming composites. *Fire and Materials*, 47(8), 990-1002.
- Gautam, A., & Chatterjee, I. (2023). Medical Imaging and Schizophrenia: A Study on State-of-Art Applications. In *Cognizance of Schizophrenia: A Profound Insight into the Psyche* (pp. 271-281). Singapore: Springer Nature Singapore.
- Gogna, M., Tailor, A., & Mehta, S. (2023). Brassinosteroids: perspective of biosynthesis, crosstalk, and role in plant development. In *Hormonal Cross-Talk, Plant Defense and Development* (pp. 75-85). Academic Press.
- Gour, T., Sharma, A., Lal, R., Heikrujam, M., Gupta, A., Agarwal, L. K., ... & Sharma, K. (2023). Amelioration of the physio-biochemical responses to salinity stress and computing the primary germination index components in cauliflower on seed priming. *Heliyon*, 9(3).
- Gulati, P., Chadha, J., Harjai, K., & Singh, S. (2023). Targeting envelope proteins of poxviruses to repurpose phytochemicals against monkeypox: An in silico investigation. *Frontiers in Microbiology*, 13, 1073419.
- Jain, S., Vimal, N., Angmo, N., Sengupta, M., & Thangaraj, S. (2023). Dengue vaccination: towards a new dawn of curbing dengue infection. *Immunological Investigations*, 52(8), 1096-1149.
- Jassal, P. S., Rani, P., & Johar, R. (2024). Synthesis of magnetic chitosan beads and its cross-linked derivatives for sorption of zinc ions from water samples of Yamuna and Hindon rivers in North India. *Polymer Bulletin*, 81(6), 5295-5311.
- Kaur, J., & Kaur, J. (2024). Comparative genomics of seven genomes of genus *Idiomarina* reveals important halo adaptations and genes for stress response. *3 Biotech*, 14(2), 40.
- Kishore, N., & Singh, B. P. (2023). Emerging Role of Medicinal Plants in the Prevention of Oral Cavity Disorders. *Pharmacological Studies in Natural Oral Care*, 33-45.
- Kumar, S., Chhatwal, R. J., Maity, J., Senapati, N. N., & Prasad, A. K. (2023). Fujiwara-Moritani Assisted Synthesis of Conjugated 2, 3-Dihydrofuran Trienes and Corresponding 2, 3-Dihydrobenzofuran Derivative. *ChemistrySelect*, 8(2), e202204064.
- Kumar, S., Khatri, V., Mangla, P., Chhatwal, R. J., Parmar, V. S., & Prasad, A. K. (2023). C-Glycopyranosyl aldehydes: emerging chiral synthons in organic synthesis. *RSC advances*, 13(29), 19898-19954.

- Kumar, S., Sahu, R. K., Kumari, P., Maity, J., Kumar, B., Chhatwal, R. J., ... & Prasad, A. K. (2023). Efficient and stereoselective synthesis of sugar fused pyrano [3, 2-c] pyranones as anticancer agents. *RSC advances*, 13(35), 24604-24616.
- Maikhuri, V. K., Mathur, D., Chaudhary, A., Kumar, R., Parmar, V. S., & Singh, B. K. (2024). Transition-Metal Catalyzed Synthesis of Pyrimidines: Recent Advances, Mechanism, Scope and Future Perspectives. *Topics in Current Chemistry*, 382(1), 4.
- Maikhuri, V. K., Verma, V., Chaudhary, A., Mathur, D., Kumar, R., & Prasad, A. K. (2023). Sugars in Multicomponent Reactions: A Toolbox for Diversity-Oriented Synthesis. *Synthesis*, 55(07), 1007-1041.
- Manchanda, G., Khatoon, Z., & Alam, M. P. (2023). A numerical approach for solving Thomas–Fermi type equations using nonpolynomial B-spline function. *Palestine Journal of Mathematics*, 12(4), 33-44.
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UGC Care-listed Journals

Ahuja, R., & Khandelwal, J. (2023). Challenges, opportunities and risk analysis of adoption of decentralized finance applications. *ICTACT Journal on Soft Computing*, 14(1).

Dhawan, M. (2023). Laxminarayan Lal ke natak 'Vayaktigat' mein Stri Asmita ke Prashan. *Rang Prasang*, 25(55), 78-84.

Rani, S., & Babbar, S. (2023). Emerging Global Cyber Security Trends in Sustainable Business Practices. *MSW Management Journal*, 33(1), 109-120.

Web Science Indexed Journals

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Rawat, V. S., Nautiyal, A., Ramlal, A., Kumar, G., Singh, P., Sharma, M., ... & Baweja, P. (2024). Algae-coral symbiosis: fragility owing to anthropogenic activities and adaptive response to changing climatic trends. *Environment, Development and Sustainability*, 1-28.

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Shinde, U. A., De, A., Godse, R. D., Rathod, M., Thorat, R., Sharma, N., ... & Singh, K. (2024). Efficacy evaluation of carboplatin-etoposide Co-loaded PLGA microparticles for subconjunctival chemotherapy in retinoblastoma. *Journal of Drug Delivery Science and Technology*, 92, 105333.

Strauss, J. C., Haskey, N., Ramay, H. R., Ghosh, T. S., Taylor, L. M., Yousuf, M., ... & Raman, M. (2023). Weighted gene co-expression network analysis identifies a functional guild and metabolite cluster mediating the relationship between mucosal inflammation and adherence to the Mediterranean diet in ulcerative colitis. *International Journal of Molecular Sciences*, 24(8), 7323.

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Research Projects

Dr. Brototi Roy – Project entitled, ‘Novel hormone asprosin in teleost *Channa punctatus* identification, characterization and its impact on reproduction’ sponsored by Science and Engineering Research Board for ₹ 37.4 lakhs.

Patents Filed/Granted

United States Patent entitled, ‘Self healing anti corrosive coatings and a process for the preparation thereof’. Application No. US 2015/0184304 A1.

Indian Patent entitled, ‘An improved sol-gel process for the nano-structured corrosion-resistant alumina coatings’. Application No. 298935.

Indian Patent entitled, ‘A process of preparation of coating of conducting polymer composites against corrosion in marine environment’. Application No. 369797.

Indian Patent entitled, ‘Ultraviolet (UV) Disinfectant Box’. Application No. 409373.

Indian Patent entitled, ‘Immunity Testing Kit for Kids’. Application No. 379780-001.

Seminars Organized

Prof. Seema Agarwal , Academic Director and Professor, Department of Chemistry, University of Bayreuth, Germany, Polymers: What, Why and Where?, November 23, 2023.

Mr. Sachin Jain, IRS 2016, Ex-Deputy Commissioner of Income Tax Delhi, Why top college students from IIT, IIM leave their job of more than ₹ 1 crore for civil Services?, April 30, 2004.

Mr. Chaitanyam Potnuru, Senior Imaging Data Scientist, Corteva Agri Science, Artificial Intelligence and Its Applications, June 29, 2023.

Prof. Rama Jayasundar, Head, NMR, MRI Department, AIIMS, New Delhi, Women Achievers in Pre-independent India, February 29, 2024.

Conferences Organized

International Annual Conference entitled, ‘Equinox 2023’ organized by Centre for Research on August 23, 2023.

Seminar/Conference Presentations (National / International)

International

Hemlata Rani presented a paper entitled, ‘Bharat- Nepal Mitrata sambandhi’ in the Symposium on Vishva pratibha purskar samman, sammelan Nepal organised by Vishv pratibha purskar samman held from June 11-12, 2023.

Jyotsna presented a paper entitled, ‘Intra-Regional Trade Practices by Using Gravity Model: A Study on India and Sri Lanka’ in an International Conference on Advance Research in Technology, Management, Social Science, Sustainable Development & Humanities organised by DAV Institute of Management, Faridabad held on May 12-13, 2023.

Priyanka Sahni presented a paper entitled, ‘An Integral Problem Solution via fixed points of an extended type F-Kannan Mapping’ in the 2nd International Conference on Recent Advances in Mathematical Sciences and Interdisciplinary Areas organised by the Department of Mathematics, Institute of Applied Sciences and Humanities which was held from June 22-24, 2023.

Smriti Singh presented a paper entitled, ‘Covid-19 and Disability: Exploring Adaptive Coping Mechanisms of Persons with Disabilities’ in Conference 2023 IPSA World Congress of Political Science organised by the International Political Science Association (IPSA), Argentina held on July 15-19, 2023.

National

Anurita Jalan presented a paper entitled, ‘Predicament of teaching universal ethics as part of a curriculum’ in a Conference organised by Landon Yarchos Chemo from August 7-9, 2023.

Brototi Roy presented a paper entitled, ‘Shifting Paradigms of Education: Relevance To Self Reliance in Modern India’ in KSAS Annual Symposium 2024 held from February 2-4, 2024.

Jaspreet Kaur presented a paper entitled, ‘Potential Role of Phytohormones in Treating Human Ailments’ at the Annual National Conference on Advances in Plant Biology (APB 2024): Innovations and Strategies for Sustainable Agricultural Productivity for Viksit Bharat@2047 organised by Department of Botany, Hansraj College, in collaboration with Mahatma Hansraj MMTT Centre on February 10, 2024.

Mamta Dhawan presented a paper entitled, 'भारतीय रंगमंच में नौटंकी' in the National Seminar on भारतीय रंगमंच में नौटंकी organised by Swarg Repertory, Prayagraj, Uttar Pradesh from August 24-27, 2023.

Neelima Ohri presented a paper entitled, 'Some transforms on a class of composition operators' in the National Conference on Recent Advances in Mathematics organised by the Department of Mathematics, Aggarwal College Ballabgarh, M.D. University, Rohtak, Haryana from May 5-6, 2023.

Ritu Dhingra presented a paper entitled, 'Synthesis and Characterization of single crystals of cadmium iodide as gamma-ray radiation detector' in the National Workshop on Material Design and Processing organised by SPS, JNU and IAPT in JNU from May 8-10, 2023.

National/International MoUs Signed

MoU signed with Prof Huiru Jane Zheng, Ulster University, United Kingdom on October 8-9, 2023, for 2 years for Research and Exchange.

An international MoU was signed with Indigenous Talents Pvt. Ltd. on February 12, 2024 for one month for interaction amongst students of Maitreyi College and Visiting student delegations from New Zealand and Australia.

MoU was signed with Special Olympics Bharat on August 10, 2023 for three years for the Inclusion of people with intellectual disabilities in education and sports for the practice of special athletes in the College sports ground.

MoU was signed with TERI School of Advanced Studies on April 5, 2023 for one day for academics.

MoU was signed with New Oriental Education and Sports Consultant Private Ltd. on August 16, 2023 for one year for sports activities of the students of Maitreyi College.

MoU was signed with the Foundation for Krishna Kala and Education (Society) on January 22, 2024 for one year for conducting a short-term course on Kathak.

MoU was signed with Nutriwel Health (India) Pvt. Ltd. on October 20, 2023 for three years for conducting a Certificate Course on 'Ayurvedic Nutrition for Well Being' .in the College.

MoU was signed with CURE India on September 30, 2023 for 60 hrs Internship/ Apprenticeship for students of Maitreyi College.

MoU was signed with HCL Foundation on August 11, 2023 for one year for awareness about the environment and sustainable development

MoU was signed with Khel Foundation on January 30, 2024 for one year for sports activities.

MoU was signed with New Oriental Education and Sports Consultant Private Ltd. on August 16, 2023 valid for one year for sports activities.

MoU was signed with ICT Academy on November 24, 2022 for 365 days for Training Seminars, Faculty Training, Student Training, Workshops, etc.

Student under Exchange Program (Inbound/Outbound)

College hosted 38 students (24 from New Zealand and 14 from Australia) from February 12-13, 2024, to provide them with the insights into India through the college's perspective. Interactions with faculty and

students facilitated a deeper understanding of Indian academia and fostered cross-cultural learning experiences.

Indigenous Talent Private Limited organised a six-week journey to India, funded by the New Zealand Prime Minister's Scholarship for Asia, and a two-week excursion through India sponsored by the New Colombo Plan. The "Reimagining India" study tour aimed to explore creativity and innovation across various domains, from spirituality to start-ups. During their visit, the student delegation had the opportunity to immerse themselves in Indian culture and education. facilitated a deeper understanding of Indian academia and fostered cross-cultural learning experiences

Placement Details (Number and percentage of students placed)

Number of students placed: 260.

Number of Companies visited for campus recruitment: 117.

Extension and Outreach Activities

The NSS and Enabling unit of the college in collaboration with CURE India, developed the Sugamya App, making the entire college accessible via QR Codes for precise navigation within the building.

The college integrates social outreach and community engagement into its curriculum through the IAPC course, aligning with NEP 2020.

College, under the Unnat Bharat Abhiyaan, supports five villages through plantation drives and health awareness programs, recently visited Mangroli and Melwa Gopalgarh to address sanitation issues. College, along with Ayurgyan Nyas, organized a two-day conference on "Approach to Mental Health and Well-being under NEP, 2020" to advocate for mental health awareness in education.

Collaborating with Sanskriti School, Department of Physical Education established a Fitness Center, offering fitness classes and sports instruction to special needs students three days a week.

College, along with Special Olympics Bharat and Anchal Special School, hosted an Annual Youth Activation Programme, supporting young Special Olympic athletes.

The Department of Sociology arranged a research-oriented trip to Khajuraho, exploring historic Jain and Hindu temples dating back to the Chandella dynasty.

Library Development

Maitreyi College is committed to continuously improving library infrastructure and facilities so as to ensure that the students and faculty members get access to a wide variety of books and library facilities.

The college library acquired 1099 books during 2023-2024. The total collection of the library has been augmented to 101536 print books. It subscribes to 51 Journals, including popular magazines and a collection of 22 newspapers (15 Titles) in the library.

The library subscribes to the N-LIST consortium, which covers 6000+ e-journals and 1,99,500 E-books under N-list 6,00,000 E-books through NDL. The college library continues to be a member of DELNET (Developing Library Network), which specially caters to our needs through inter library loans.

Library users can access the previous and current year syllabus/question papers under the Library tab on the college website. Library is providing QR code facility for their students to pay library overdue charges and be the part of Digital India.

The library has updated Library Management Software (LMS) SOUL (software for university Library) to 3.0 Version and also introduced Radio Frequency.

Faculty Strength

Senior Professor/Professor/Director: 3

Associate Professor: 34

Assistant Professor: 123

Ad-Hoc: 15

Guests: 27

Financial Allocation and Utilization

Grant Allocated: ₹ 69,81,05,000/-.

Grant Utilized: ₹ 72,09,64,000/-.

MATA SUNDRI COLLEGE FOR WOMEN

Major Activities and Achievements

National Council for Teacher Education (NCTE) granted approval to the college for the 4-year Integrated Teacher Education Programme (ITEP) with B.A. B.Ed. dual-major holistic Bachelor's degree in Education. College received 'Academic Ascendancy Prize for Exemplary College Excellence' by Confederation of Indian Universities; an 'Appreciation Award' for its contribution in Shramdaan for Swachh Bharat by the Ministry of Housing and Urban Affairs, Govt. of India; a 'Zero Waste Institution Award' by MCD, Delhi and a 'Certificate of Appreciation' for outstanding performance in the 'I love Yamuna Campaign' organized by the Department of Environment, Forests, and Wildlife Government of NCT of Delhi. Recruitment for permanent Assistant Professors across all the departments, as well as promotions towards Associate Professorship and Professorship were conducted successfully. Google Developer Student Club (GDSC-MSCW) was established in the month of August 2023 to promote collaboration between Google platform and college students passionate about technology. MSCW Mobile App (the Android version) was also launched. Cultural society of the College represented Delhi University at the prestigious 37th Inter-University North-West Zone Youth AIU competition. College in association with Golden Signatures organized 'India@G20 Impact Assessment Summit 2023' at IIC, Delhi. Aarogyam, a cell on mental health and well-being was established. Workshops on themes like 'Mental Health Awareness and Substance Use' were conducted. Akashvani Delhi organised a 'G20 Youth Conclave' in collaboration with the College on the theme 'Inspiring Change: Youth Engagement During India's G20 Leadership'. College IQAC in collaboration with Rajbhasha Kriyanvayan Samiti and Bhartiya Bhasha Manch, celebrated 'Hindi Saptah Mahotsav'. National MUN was organised by the Debating Society in collaboration with The Novice's, an educational Initiative..

Honours/Distinctions

Faculty

Prof. Harpreet Kaur (Principal) received the ‘Ambassador of Green Planet’ award for providing an eco-friendly campus, ‘Academic Ascendancy Prize for Exemplary College Excellence’ for her contribution in the area of academic excellence at the 20th Foundation Day of the Confederation of Indian Universities.

Prof. Harpreet Kaur (Principal) and Dr. Poonam Vats (Department of Psychology) were recipient of an Award from University of Delhi for demonstrating Cultural Excellence in an Inter-College Folk/Tribal competition. They received a Best Paper Award in an International Conference on ‘Changing Dynamics of Global Education’ organised by Asian Business School (ABS) and Northern University Bangladesh (NUB). They both were also recipient of the National Environmental Education and Awareness Award on the occasion of World Environment Day celebrations organized by the Governing Council of the International Association of Educators for World Peace.

Students

Sanjana, B. A. Programme, III year, was a recipient of a gold medal in National Games 2023 and Jr. Asian Championship Team. She was also a recipient of a silver medal during the Jr. World Championship and a bronze medal in National Championship, Jr. World Cup, Indian team trials.

Varleen Kaur, a student of B.El.Ed, was a recipient of a gold medal and Harkirat Kaur, a student of B.A. (Hons) English; Simran Kaur, a student of B.Com. programme; Simranpreet Kaur, a student of B.Com. programme; Mandeep Kaur, a student of B.Com. programme; Prabhleen, a student of B.A. (Hons) English; were together recipient of a silver medal in Nationals Championship Assam

Publications

Scopus Indexed Journals

Chauhan, D., Gupta, I., & Verma, R. (2023). On some properties of A -nuclei and σ - A -nuclei of a quasigroup. *Journal of Algebra and Its Applications*, 22(07), 2350157.

Gupta, S., & Gupta, P. (2023). Parameter Tuning of Coronavirus Herd Immunity Optimizer for Detection of Communities in Social Networks. *Advances in Artificial Intelligence and Machine Learning*, 3(4), 1728-1742.

Kaur, G., & Nagpal, S. (2023). Partial Sums And Inclusion Relations For Starlike Functions Associated With An Evolute Of A Nephroid Curve. *Bulletin of the Korean Mathematical Society*, 60(6), 1477-1496.

Lambe, A.K., Bhargava, R., Deepa, MK, Satpathy, P.S., Singh, K., Bandyopadhyay, S. (2023). Exploring Cutting- Edge Research Topics in Cancer, Pharmacology, and Analytical Chemistry. *Journal of Chemical Health Risks*, 13(6), 1-6.

Sahni, A. K., Pandey, J. T., & Mishra, R. K. (2023). On Fuzzy Projective Modules-its Modified Classes And Estimation Of Projective Dimension. *Palestine Journal of Mathematics*, 12.

Sharma, S., Sharma, R., Manani, P., & Prasad, I. V. (2024). Infertility Among Married Women in Northern India: A Qualitative Study of Coping Strategies and Social Stigmas. *International Journal of Women's Health & Reproduction Sciences*, 12(1).

UGC Care-listed Journal

Dhaliwal, S., Kaur, H., Ahuja, Y., Kaur, A., Gupta, M. (2023). A Comprehensive Examination of Social Media & Impact on Youth Development, Mental Health, and Academic Performance. *International Journal of Creative Research Thoughts*, 12(11), 901-911.

Journals

SAMIKHIYA: A multidisciplinary, peer-reviewed, open-access research journal ISSN:2583-827X (online). *Mata Sundri College for Women*, University of Delhi, 2(2), 1-147.

Implementing Blockchain Technology in Automated Teller Machine (ATM) based Electronic Voting Machine.

Research Projects

Project entitled, 'Women in Operator Algebras III International group project Title: Nuclear dimension of crossed products by Hilbert bimodules over commutative C*- algebras' funded for ₹ 2,68,497/-.

Patents Filed/Granted

Dr. Sirtaj Kaur – 'Smart and Unique Process to Identify Deviation of Quality Control from Stakeholders in Education System'. Application No. 20231103504 A.

Dr. Preeti Manani – 'Psycho-Adaptive Neural Network for Scalable Integration of Visual Working Memory with Natural Image Processing'. Application No. 202411007563 and 'IML-based device for teaching Braille language to the blind students' Application No. 6287789.

Seminars Organized

Dr. Anchal Garg, a Post-Doctoral Research Fellow at Earth System Science Department, Stanford University, USA, Switching from Unsustainable to Sustainable Lifestyle: A Roadmap for the Conservation of Nature and its Resources, July 28, 2023.

Dr. Anshu Srivastava, Assistant Professor, Special Centre for National Security Studies (SCNSS), Jawaharlal Nehru University, Empowering Women through the Lens of G20, October 3, 2023.

Dr. Ayushi Ketkar, Assistant Professor, Special Centre for National Security Studies (SCNSS), Jawaharlal Nehru University, Women in Conflict: Uncivil Wars in a Civilized World, October 3, 2023.

Dr. Harbans Sagoo Prof. Seema Bawa, Professor, Department of History, University of Delhi, Sikh Women in Indian History, October 18, 2023

Dr. Umesh C. Pathak, Head of the Department, Journalism and Mass Communication, Maharaja Agrasen Institute of Management Studies, an affiliate of GGSIP, University of Delhi, Youth Seminar on Viksit Bharat@ 2027, Match 18, 2024.

Conferences Organized

8th Asia Pacific International Conference on 'Modern Sciences Congress' was organized in collaboration with the Institute of Economic Development and Social Research, Turkey on September 11, 2023.

An International on ‘World Women Studies Conference-VII’ in collaboration with the Institute of Economic Development and Social Researches, Turkey, and Baku Girls University, Azerbaijan was organized in a hybrid mode on March 7, 2024.

An International Conference on ‘Mathematics and Applications’ was sponsored by DST-SERB, CSIR and DRDO and organized by the Department of Mathematics on January 19, 2024.

An International Conference on ‘India and Europe in a Changing World: Understanding Global Dynamics and Navigating New Realities’ was organized by the Department of Political Science and in collaboration with Jean Monnet Module, Centre for European Studies, Jawaharlal Nehru University on February 16, 2024.

An International Vidushi Conference was organized in collaboration with the Global Sanskrit Forum on March 21, 2024.

Seminar/Conference Presentations (National / International)

International

Harpreet. Kaur presented a paper entitled, ‘CSR: A Promising Future Inherent in Teachings of Sri Guru Granth Sahib’ at an International Conference on ‘India and Europe in a Changing World: Understanding Global Dynamics and Navigating New Realities’ on February 16, 2024.

National/International MoUs Signed

MoUs signed with Sanskrit Bharti, New Delhi; Calligraphy India; University of Teacher Education, State of Vaud, Switzerland (HEP); Philosophical Practitioners Association; Institute of Economic Development and Social Researches, Turkey; Society for Environment and Sustainable Development; Deputy Commissioner City Sadar, Paharganj and Why Waste Wednesday's Foundation; UDYAMI HELPLINE INDIA.

Other Inter-Institutional Collaboration

Connexus: A Digital Renaissance Unfolded collaborated with Vyapaar, the Entrepreneurial Cell of Delhi College of Arts and Commerce on February 12-13, 2024.

Placement Details (Number and percentage of students placed)

Number of students placed: 135.

Number of Companies visited for campus recruitment: 23.

Extension and Outreach Activities

“Sahyog: A Community Outreach Initiative” of the elementary education was organized with an event “Fitness with Fun” on October 12, 2023 at Sri Guru Harkrishan Khalsa Girls Senior Secondary School.

NSS organized various activities for social outreach and welfare including a two day Basic Life Support Training Program, Flood Relief Donation Drive, Diwali celebration in Than Singh ki Pathshala, Blood Donation camp (in collaboration with Delhi Police, North District), Special Youth Camp with the Office of the Electoral Registration, Pad Distribution Drive along with Prashraya Welfare Foundation, Sanitary and

Stationery Donation Drive Program on the theme ‘Sanitary and Stationery Support: Empowering India’s Tomorrow’.

Eco Club, Earthcon, organized a plantation drive as part of the VAN MAHOTSAV along with an E-Waste Collection Drive. Department of Environmental Studies organised a workshop on ‘NIVARAN’—Plastic Waste Management in collaboration with Swachh Core Team and Municipal Corporation of Delhi (MCD) on July 3, 2023 to create awareness regarding the management of plastic waste and waste segregation at source.

Library Development

KOHA- ILMS software was purchased and installed successfully. MSQB Portal: Gateway to Question Repository was launched on December 21, 2023.

Number of the books added during this academic year was 1131 with the total number reaching 118800. The total number of journals and magazines in the college library is 40.

Faculty Strength

Senior Professor/Professor/Director: 12

Associate Professor: 49

Assistant Professor: 99

Guests: 2

Financial Allocation and Utilization

Grant Allocated: ₹ 70 crores 98 lakhs only

Grant Utilized: ₹ 56 crores 42 lakhs and 61 thousand only.

MIRANDA HOUSE

Major Activities and Achievements

Miranda House has been seventh time consecutively ranked as number one among colleges by the NIRF of 2023. MH has achieved second position in sciences and third in Humanities and Social Sciences in India Today rankings, awarded Best Education Brand by The Economic Times in 2023 and has won DU’s Centenary Prize for sustainable practices.

The college celebrated its Platinum Jubilee year with luminaries delivering the Platinum Jubilee lecture series - Vice President of India Shri Jagdeep Dhankhar, Minister, MEA, Dr. S. Jaishankar, Minister WCD and Minority Affairs, Smt. Smriti Z Irani and Vice Chancellor, University of Delhi, Prof Yogesh Singh. The college felicitated 75 illustrious alumnae- Padma Shree, Kiran Nadar and Ila Singh, Deputy CGA.

Urban Studies and Research Centre was set up for creating inclusive, sustainable and resilient cities, inaugurated by the MoHUA, Shri Hardeep Singh Puri.

Celebrating India's G20 presidency, MH and DU collaborated to organize Cultural Council programme, under India-EU aegis on "Advancing Sustainable Development: Building a Resilient Future Focusing on India-EU Collaboration".

An interactive Session with Prof. Morten P. Meldal, Nobel laureate in Chemistry 2022 and Dr. Phaedria Marie St. Hilarie, Life Science Business Leader emphasized sustainability practices and promoting more women scientists in STEM.

Honours/Distinctions

Faculty

Prof. Monika Tomar recognized amongst the top 2% scientists of the world in the ranking released by Stanford, 2023.

Dr. Priyamvada Singh received SERB International Research Experience (SIRE) Fellow, SERB, DST, Government of India, 2023.

Ms. Madhu received travel and accommodation grant by the Centre for Portuguese Studies and Culture, University of Massachusetts Dartmouth (2024). She received another travel and accommodation grant from Centre for the Studies of Global Development and David F. Musto Centre for Drug Policy Studies at Shanghai University, China (2023).

Prof. Sadhna Sharma received Reviewer Recognition for Elsevier Journals April 2023- March 2024.

Students

College top five positions include : Anagha K T, a student of B.Sc. (Hons) Chemistry; Skoon Sharma a student of B.Sc. (Hons) Botany; Kritika Sharma a student of B.Sc. (Hons) Zoology; Medha Shree a student of B.Sc. (Hons) Zoology; Bhawana a student of B.Sc. (Hons) Mathematics.

Publications

Scopus Indexed Journals

Aggarwal, G., Aggarwal, S. & Manisha Bansal (2024). Women Vulnerability Index (WVI): Multi Criteria Decision Making Approach. *International Journal of Intelligent Systems and Applications in Engineering*, 12(21), 1232–1238.

Aggarwal, G., Aggarwal, S. & Manisha Bansal (2023). BiETech: Bicluster Ensemble Techniques. *International Journal on Recent and Innovation Trends in Computing and Communication*, 11, 4075-4088.

Ahmad, T., Jindal, K., Tomar, M., & Jha, P. K. (2023). Effect of codoping of rare earth elements and Cr on multiferroic, optical and photocatalytic properties of BiFeO₃. *Materials Today Communications*, 37, 107516.

Ahmad, T., Jindal, K., Tomar, M., & Jha, P. K. (2023). Theoretical insight of origin of Rashba–Dresselhaus effect in tetragonal and rhombohedral phases of BiFeO₃. *Physical Chemistry Chemical Physics*, 25(7), 5857-5868.

Bege, M., Singh, V., Sharma, N., Debreczeni, N., Bereczki, I., Poonam, ... & Borbás, A. (2023). In vitro and in vivo antiplasmodial evaluation of sugar-modified nucleoside analogues. *Scientific Reports*, 13(1), 12228.

- Bharati, M., Rana, L., Gupta, R., Sharma, A., Jha, P. K., & Tomar, M. (2023). Fabrication of Surface Acoustic wave resonator as Acousto-optic Modulator. *Optical Materials*, 142, 114088.
- Bharati, M., Rana, L., Gupta, R., Sharma, A., Jha, P. K., & Tomar, M. (2023). Realization of a DNA biosensor using inverted Lamb wave MEMS resonator based on ZnO/SiO₂/Si/ZnO membrane. *Analytica Chimica Acta*, 1249, 340929.
- Bharati, M., Rana, L., Gupta, R., Sharma, A., Jha, P. K., & Tomar, M. (2023). Simulation and Fabrication of Higher-Mode Lamb Wave Acoustic Devices for Sensing Applications. *physica status solidi (a)*, 220(14), 2200760.
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- Jeengar, C., Tomar, M., Jindal, K., Sharma, A., & Jha, P. K. (2023). Influence of post deposition annealing on thermoelectric properties of In₂Se₃ thin films. *Materials Science in Semiconductor Processing*, 153, 107127.
- Kakkar, R., Badhani, B., & Bhandari, M. (2023). Density functional theory study of the antioxidant activity of glutathione: Reaction with alloxan and its derivatives. *Computational and Theoretical Chemistry*, 1230, 114374.
- Kumar, A., Chowdhuri, A., Tomar, M., & Singh, M. (2023). Boost in the electromagnetic shielding effectiveness of polystyrene–polyaniline composites by addition of carbon nanofibers. *Arabian Journal for Science and Engineering*, 48(1), 1009-1019.
- Kumar, A., Sachdev, V. K., Chowdhuri, A., Tomar, M., & Singh, M. (2023). Electromagnetic shielding effectiveness and dielectric study of polystyrene/aluminum composite by addition of graphite and carbon nanofiber powder. *Journal of Materials Science: Materials in Electronics*, 34(27), 1857.
- Kumar, D., Singh, B., Kumar, G., Shakya, R., Vikram, K., Rani, A., & Singh, H. (2023). Phyto-fabrication and characterization of *Alternanthera sessilis* leaf extract–mediated silver nanoparticles and evaluation of larvicidal potential. *Biomass Conversion and Biorefinery*, 1-16.
- Kumar, M., Verma, S., Sharma, M., Poonam, & Rathi, B. (2023). Metal-Catalysed Synthesis of Benzofused Five-Membered N/O/S-Heterocycles, a Progressive Area in Synthetic Organic Chemistry. *European Journal of Organic Chemistry*, 26(46), e202300877.
- Kumar, S., Bhuvaneshwari, R., Jain, S., Nirwan, S., Fatima, Z., Kumar, D., ... & Rathi, B. (2024). A Systematic Review on Pesticide-loaded Nanocapsules: A Sustainable Route for Pesticide Management to Enhance Crop Productivity. *Current Nanoscience*, 20(3), 280-297.
- Kumari, M., Chhikara, B. S., Singh, P., Rathi, B., & Singh, G. (2024). Signaling and molecular pathways implicated in oral cancer: A concise review. *Chemical Biology Letters*, 11(1), 652-652.
- Kumari, M., Jindal, K., Munjal, S., Tomar, M., & Jha, P. K. (2024). Analog resistive switching behavior in BiCoO₃ thin film. *Solid-State Electronics*, 212, 108831.

- Kumari, M., Jindal, K., Tomar, M., & Jha, P. K. (2023). Effect of 3d transition metal doping on the structural, electronic, & magnetic properties of BiCoO₃ using first principles study. *Journal of Magnetism and Magnetic Materials*, 588, 171383.
- Laishram, S. D., & Shakya, R. (2023). Role of Extreme Climate Events in Amplification of Plant Invasion. In *Plant Invasions and Global Climate Change* (pp. 77-97). Singapore: Springer Nature Singapore.
- Lamichhane, S., Sharma, S., Tomar, M., & Chowdhuri, A. (2023). Impact of laser energy on resistive switching properties of BiFeO₃ thin films. *Materials Chemistry and Physics*, 293, 126824.
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- Lamichhane, S., Sharma, S., Tomar, M., & Chowdhuri, A. (2023). Studies on energy storage properties of BFO/WO₃ bilayer thin film capacitor. *Energy Storage*, 5(2), e342.
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- Lochab, A., Jindal, K., Chowdhuri, A., Tomar, M., & Saxena, R. (2023). Conductive polymer based MWCNTs nanocomposite as electrochemical sensing platform to detect chloramphenicol. *Synthetic Metals*, 297, 117397.
- Miglani, R., Gupta, R., Kumar, A., Sachdev, V. K., Tomar, M., & Chowdhuri, A. (2024). EMI Shielding Properties of Sub-micron Polymer Composite of Barium Strontium Titanate Loaded with Polystyrene, Graphite Powder, and Carbon Fibre. *Arabian Journal for Science and Engineering*, 49(1), 1037-1045.
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- Puri, P. (2023). Enhanced vegetation index and land use analysis for seven sister states of India (2000–2022). In *Sustainable Development Goals in Northeast India: Challenges and Achievements* (pp. 167-183). Singapore: Springer Nature Singapore.
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- Rani, N., Rani, S., Patel, H., Yadav, S., Saini, M., Rawat, S., & Saini, K. (2023). Characterization and investigation of antioxidant and antimicrobial activity of zinc oxide nanoparticles prepared using leaves extract of *Nyctanthes arbor-tristis*. *Inorganic Chemistry Communications*, 150, 110516.
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- Rehsawla, R., Dhull, N., Tomar, M., Sharma, S., & Yadav, N. R. (2023). Nanofilm-enhanced electrochemical DNA sensing: a breakthrough for yellow rust detection in wheat. *Materials Research Express*, 10(11), 116402.
- Sachdeva Jha, S. (2023). The women of Miranda House: Building archival collections, digital humanities and feminist digital history. *South Asian Popular Culture*, 21(3), 279-289.
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- Shakya, R., Capilla, E., Torres-Pagán, N., Muñoz, M., Boscaiu, M., Lupuț, I., ... & Verdeguer, M. (2023). Effect of two biostimulants, based on *Ascophyllum nodosum* extracts, on strawberry performance under mild drought stress. *Agriculture*, 13(11), 2108.
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- Singh, P. (2023). Exploring gender approach to climate change and agroecology: Women farmer's search for agency in India. *Asian Journal of Social Science*, 51(1), 18-24.
- Upadhyay, C., Kumar, S., & Poonam. (2023). Recent Advances on the Discovery of Plants Derived Bioactive Scaffolds/Extracts Against Parasitic Diseases. *Natural Product Based Drug Discovery Against Human Parasites: Opportunities and Challenges*, 1-22.
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- Yadav, G., Jindal, K., & Tomar, M. (2023). Fabrication of GaN-based MSM droplet triboelectric nanogenerator by the conjunction of photovoltaic and triboelectric effect. *Journal of Alloys and Compounds*, 944, 169178.
- Yadav, G., Jindal, K., & Tomar, M. (2023). Influence of pulsed laser deposited hafnium oxide thin film as gate dielectric on the fabrication of Al_{0.1}Ga_{0.9}N/GaN MOS-HEMT. *Mater. Sci. Semicond. Process*, 153(107136), 10-1016.
- Yadav, S., Rani, N., & Saini, K. (2024). Fabrication of α -Fe₂O₃/rGO nanocomposite and its study for electrochemical glucose sensor and supercapacitor application. *Diamond and Related Materials*, 142, 110707.

Zahedifard, F., Bansal, M., Sharma, N., Kumar, S., Shen, S., Singh, P., ... & Zoltner, M. (2024). Phenotypic screening reveals a highly selective phthalimide-based compound with antileishmanial activity. *PLOS Neglected Tropical Diseases*, 18(3), e0012050.

UGC Care-listed Journals

Banerjee, S. (2023). Persian Literati, Islam and Politics in Early Modern South Asia: Being a Muslim in ‘Abd al-Haqq Dehlawi’s Texts. *South Asia: Journal of South Asian Studies*, 46(6), 1115-1133.

Puri, P. Examining Research on Disasters In India-A Bibliometric Study (1969-2022). *Disaster Development*, 81.

Singh, P. (2024). Food Sovereignty Movements and Environmental Justice in India: Critical Insights and Assessments from the Field Studies of Uttarakhand and Odisha. *Social Action: A Quarterly Journal of Social Trends*, 73 (4), 446-459

Singh, P. A Critical Re-engagement with Traditions: Women, Agriculture and Agroecology in India. *INDIAN STUDIES REVIEW*, 110.

Web of Science Indexed Journals

Bajaj, M., Bahri, S., Roy, S. S., Krishna, S., & Chaturvedi, S. (2023). Phytoestrogens of *Trifolium pratense* L. as therapeutics: A review. *South Asian Journal of Experimental Biology*, 13(4).

Kumari, T., Gupta, B., Sharma, R., & Bedi, P. (2023). Empowering reciprocal recommender system using contextual bandits and argumentation based explanations. *World Wide Web*, 26(5), 2969-3000.

Kumari, T., Sharma, R., Gupta, B., & Bedi, P. (2023). Generating Popularity-Aware Reciprocal Recommendations Using Siamese Bi-Directional Gated Recurrent Units Network. *Vietnam Journal of Computer Science*, 10(3), 273-301.

Research Projects

Prof. Bijayalaxmi Nanda – Project entitled, ‘Establishing the Northeastern Regional Research and Resource Centre at Miranda House’ sponsored by North Eastern Council, Government of India, for the period 2022-2025, ₹ 275.40 lakhs.

Prof. Monika Tomar - Project entitled, ‘Fabrication of Lamb Wave Devices on SiO₂/Si Membrane for strategic applications’ sponsored by DST, ₹ 428.03 lakhs.

Prof. Monika Tomar - Project entitled, ‘Realization of MEMS based Dual Energy Harvester using ferroelectric and ferromagnetic thin film layered structures’ sponsored by DST, ₹ 51.48 lakhs.

Dr. Poonam - Project entitled, ‘Sustainable route for pesticide management using nano based efficient pesticide formulation technique to enhance crop productivity’ sponsored by DST, ₹ 46.77 lakhs.

Dr. Poonam - Project entitled, ‘Lead Optimization of Potent Multistage Antimalarials’ sponsored by DST, ₹ 46.41 lakhs.

Patents Filed/Granted

Patent entitled, ‘An Antiparasitic Compound’. Application No. 44754.

United States Patent entitled, ‘Multi-States Nonvolatile Opto-Ferroelectric Memory Material and Process for preparing the same thereof’. Application No. US20170206952A1.

Patent entitled, ‘Calxinin Compositions and Method of Treating Viral Infections’. Application No. PCT/US22/26943.

Patent entitled, ‘A novel highly sensitive and reliable LRSPR biosensor for detecting uric acid and fabrication thereof’. Application No. 201911006783.

Patent entitled, ‘Electric field assisted low power consuming conductometric gas sensor’. Application No. 201811006329.

Patent entitled, ‘A sensitive, selective and rapid fuel gas sensor.’ Application No. 201711011941.

Patent entitled, ‘SPR based DNA biosensor for the detection of *Puccinia striiformis* f. *tritici*, causal agent of yellow rust in wheat.’ Application No. TEMP/E-1/24707/2020-DEL.

Patent entitled, ‘Electrochemical based genosensor for the detection of *Puccinia striiformis* f. *tritici*, causal agent of yellow rust in wheat.’ Application No. TEMP/E-1/30053/2020-DEL.

Patent entitled, ‘Photoelectrochemical water splitting based biosensor for detecting uric acid in the biological fluids.’ Application No.: 202311040935.

Patent entitled, ‘Lithium Doped Potassium Sodium Niobate Thin Film Based Mems Pressure Sensor’. Application No.- 202311023209.

Patent entitled, ‘Lamb Wave Resonator Device for Pressure Sensing’. Application No.- 202311002112.

Patent entitled, ‘Integration of Niobium Lead Zirconium Titanate (PNZT) Thin Film Lamb Wave Acoustic Device’. Application No.- 202311036612.

Patent entitled, ‘Fabrication of Lamb Wave Acoustic Device using Potassium Sodium Niobate (KNN) thin films’. Application No.- 202211070947..

Seminars Organized

Prof. Rakesh Bhatnagar, National Science Chair, Jawaharlal Nehru University, Development of genetically engineered vaccine and therapeutic antibodies against anthrax’ on the theme: Manasi Memorial lecture, March 13, 2024.

Mrs. N. Kumutha, Scientist B, Department of Civil and Environmental Engineering, Indian Institute of Technology, Patna, Intellectual Property Rights, IPR Awareness Program, June 6, 2023.

Ms. Sonalde Desai, Director National Council of Applied Economic Research (NCAER), Women and Work, March 13, 2024.

Dr S Jaishankar, Hon'ble Minister of External Affairs, The Future of Bharat, January 24, 2024.

NEP 2020- Vision, Possibilities and Challenges’ sponsored by Indian Council for Social Science Research was held on September 29, 2023. Following were the resource persons for the Seminar: Prof. Pankaj Arora; Prof. Anil Kumar; Prof. Sanjay Roy; Dr. Amita Mulla Wattal; Dr. Manish Jain; Dr. Radhika Menon; Dr. Sandeep Kumar; and Prof. Meenakshi Khar.

Conferences Organized

Organized an International Conference on ‘Smart Consumption and Sustainable Living 2024 (ICSMSL)’ on August 24, 2023.

Organized a two-day International Conference on ‘Technological Transformation Towards Sustainable Growth’ on January 30-31, 2024.

Organized an International Economics Conference on India’s development experience: Analytical perspective’ sponsored by Indian Council for Social Science Research was held on February 22, 2024.

Organized an International Conference cum Continuing Medical Education (CME) on ‘Novel insights into pathogenesis of tuberculosis for the development of vaccines, diagnostics and therapeutics’ sponsored by Department of Science and Technology -Science and Engineering Research Board and held on May 3, 2023.

Seminar/Conference Presentations (National / International)

International

Bashabi Gupta was invited for a talk on ‘Role and contribution of Indian diaspora in the Indian Independence Movement: Travel diaries of Subhas Chandra Bose in Europe and the Remaking of Azad Hind Fauj in Singapore at contributions of Indian diaspora in freedom struggles of India and the rise of global India during Amrit Kaal’ at School of Economics, Takshashila Campus, Devi Ahilya University, Indore, Madhya Pradesh on January 10-11, 2023.

Madhu presented a paper entitled, ‘Nationalism, Democracy and Identity: The Case of Goa’ at an International Conference on The Carnation revolution: Global perspectives, at University of Massachusetts Dartmouth held on April 4-6, 2024.

Madhu presented a paper entitled, ‘From Plate to Palate: Food, Nutrition and Caste in India’ at an International Workshop on Integrating Histories of Development: the Good, the Bad, and the Joined organized by the Shanghai University on November 4-5, 2023.

Shipra Singh presented a paper entitled, ‘Dynamics of land use land cover change and its impact on land surface temperature in lower son river basin, India’ in an International Conference on Climate change, Disaster Management and Environmental Sustainability organized by Jamia milia Islamia, New Delhi on February 21-22, 2024.

National

Gorvika presented a paper entitled, ‘Digitizing Women: A Study of the Miranda House Archiving Project’ at the IAWS Conference organized in Calicut University, Kerala from September 7-10, 2023.

Monika Sharma presented a paper entitled, ‘Mycobacterium tuberculosis protein PPE15 (Rv1039c) interferes with NADPH Oxidase assembly to inhibit Reactive Oxygen Species production as its survival strategy in host macrophages’ during the golden jubilee conference of I.I.Sc., IMMUNOCON-50 organized at All-India Institute of Medical Sciences, New Delhi on October 5-8, 2023.

Shweta Sachdeva Jha presented a paper entitled, ‘Tracing Lives: Baghdadi Jews and the 1947 partition of the Indian Subcontinent’ at the Conference on Remaking the World in the Shadow of the Cold War,

Migrants, Workers, Soldiers, Spies in Post-1945 Reconstruction organized by Central European University, Vienna from June 1-2, 2023.

Sushmita Banerjee presented a paper entitled, 'Spiritual lineages and role of memory in Sufism: Religion and discourse in the fourteenth century North India' at the AJEI conference on Knowledge Production, Ethics and Reflexivity in South Asia organized by IISER Bhopal on March 6, 2024.

Zarina Bano presented a paper entitled, 'A study of local multiplicity fluctuations in charged particle production in Xe-Xe collisions at 5.44 TeV using ALICE' at the 67th DAE Symposium on Nuclear Physics organized by IIT Indore from December 9-13, 2023.

National/International MoUs Signed

MoU signed with Trumio Inc, USA. (International)

MoU signed with CSIR-National Physical Laboratory, Delhi (National)

MoU signed with Delhi Teachers University, Delhi (National)

MoU signed with Rekhi Foundation for Happiness, Delhi (National)

MoU signed with National Institute of Urban Affairs, Delhi (National)

MoU signed with M.O.P. Vaishnav College for Women, University of Madras, Chennai (National)

MoU signed with Chikitsak Samuha's Sir Sitaram and Lady Shantabai Patkar College of Arts and Science and V.P. Varde College of Commerce and Economics and Autonomous College, University of Mumbai (National)

MoU signed with IDP Education India Private Limited, Delhi (National)

MoU signed with ETI Foundation, Delhi (National) QTanalytics India APNE AAP NGO, Delhi (National)

Other Inter-Institutional Collaboration

Atma Ram Sanatan Dharma College, University of Delhi, Delhi (National)

Dyal Singh Evening College, University of Delhi, Delhi (National).

Student under Exchange Program (Inbound/Outbound)

Global Business Simulation Game : 20 Students

Immersion Program in collaboration with University of Hull, UK - Immersion Program for academic enrichment: 16 Students

Immersion Programme in collaboration with University of York, UK : 22 Students

Immersion Program in collaboration with University of Wisconsin, Eau Claire, USA and PCGL: 16 Students

Celebrating 50 years of India - Korea diplomatic relations: 20 Students

Placement Details (Number and percentage of students placed)

Number of students placed: 166.

Number of Companies visited for campus recruitment: 43.

Some of the companies visiting the campus were DE Shaw, Accenture, KPMG Global Services, TresVista, Make my Trip, ZS Associates, ICICI, Tech Mahindra, Barclays, HCL, Aditya Birla, Zomato, etc.

Extension and Outreach Activities

Unnat Bharat Abhiyan (UBA), a flagship programme under the Ministry of Education (MOE), where the college links with the village partners to contribute to the economic and social betterment of these communities, using their knowledge base. The UBA Cell has taken various initiatives such as Multispecialty health check-up camp, Awareness camp on Cervical Cancer, Anaemia Survey, Blood donation camp, Cardiac health camp where renowned doctors from reputed hospitals were called. In addition to this, other activities like cleanliness drive, anti-drug awareness campaign through nukkad natak in collaboration with Delhi Police, stationary collection drive, putting up stalls of masks and tote bags made by village women. To understand the nuances of community service, teachers and students of MH UBA cell attended "Unnat Bharat: Nurturing Inclusive Development for Amrutkal" conclave at IIT Delhi and 'Grassroot Innovation and Skill Enhancement for Rural Development Conclave' at National Physical Laboratory.

Centre for Environmental Studies and Disaster Management (CESDM) is dedicated to fostering multidisciplinary research with a focus on holistic development, it strives to bring together experts and enthusiasts to collaborate, learn, and innovate. CESDM organised capacity workshops, courses and internship programmes on Climate Change Adaptation, Sustainable Pathways and Analysing Household Vulnerability to Environmental Disasters. The college has partnered with professional and institutes of repute notably National Institute of Disaster Management (NIDM), National Disaster Response Force (NDRF) and National Disaster Management Authority (NDMA).

North East Regional Research and Resource Centre (NERRRC) has been actively engaged in empowering students, specifically from the North East Region and the community, through diverse initiatives. The Centre recently established a radio setup and offers a Radio Broadcasting Course to 30 students yearly. Throughout 2023-24, NERRRC conducted skill enhancement workshops covering topics like research methodologies, e-learning, and SPSS. Project Bloom, a bamboo-based innovation project, focuses on sustainable products and women's empowerment. NERRRC offers research internships to 20 students in each session, providing hands-on research experience related to Northeast India. These initiatives collectively contribute to the academic and societal growth of the community. NERRRC actively empowers North East students and communities through radio broadcasting courses, skill workshops, and conferences with notable speakers. The Centre also promotes cultural exchange and activities with prominent artists. The famous Naga Folk Artist Tetseo Sisters also performed as a part of cultural activities.

The Department of Physical Education & Sports brought accolades at National and International levels. At International level, Saina Salonika represented India at ASEAN Rapid Chess Championship and clinched Silver Medal and Ishvi Aggarwal bestowed with the title of Women Candidate Master. A total of 12 students participated in National Championships and secured an impressive haul as two students secured I position and two students secured III position. In the fiercely competitive All India Intervarsity Championships, one student secured I position and two student secured III position. At Zonal Level University Championships,

total of eight students participated in which two students secured I Position and two students secured III Position. Furthermore, at the State Championship, seven students secured I position, six students secured II position and one student secured III position showcased our department's dominance in regional sports competitions.

In Delhi University Inter College Championships, our teams secured I position in Basketball and Netball and the Taekwondo Team also secured I Position with total 8 medals in 8 weight categories that include 5 Gold Medals, 2 Silver and 1 Bronze Medal. Moreover, Athletics team secured II Position with 15 Medals in total, which include 5 Gold, 4 Silver and 6 Bronze.

The college has also set up a Millet corner cum food incubation centre with objective toward holistic health and providing opportunities to students especially from the north east region and women from local communities to collaborate as a start up and earn while learning.

Agamya, is an endeavour to connect with students studying in Government schools located in remote areas of India. Its aim is to conduct mentoring sessions by engaging children in various activities which will help sharpen their competency and aptitude along with imparting life skills. Its motto 'SAMAGRA SHIKSHA' represents the importance of encompassing hard academic curriculum as well as soft skills like team work, time management and channelizing creativity.

Library Development

The total sanctioned Library Budget was ₹ 10,15,607/-. In the academic year 2022-2023, 919 volumes of books were added.

Faculty Strength

Senior Professor/Professor/Director: 24

Associate Professor: 66

Assistant Professor: 102

Ad-Hoc: 8

Guests: 67

Financial Allocation and Utilization

Grant Allocated: ₹ 108.31 Cr.

Grant Utilized: ₹ 108.31 Cr.

MOTILAL NEHRU COLLEGE

Major Activities and Achievements

Motilal Nehru College is one of the largest constituent colleges of Delhi University. The year 2014 marks the Golden Jubilee of the college. Beginning with a humble setting in a government school building in 1964

with an enrollment of 300 students, the college shifted to its present location in 1989 and now has an enrollment of over 3000 students coming from all parts of India and from abroad.

Honours/Distinctions

Students

Rahul Kumar, B.A (Hons) Sanskrit, II year won the prize of ₹ 1000/- in a Quiz Competition held at Vivekanand Mahavidyalaya.

Punit Kumar, B.A (Hons) Sanskrit, II year won the I prize of ₹ 800/- in a Quiz Competition in college and also won Pratibha Puraskar from Sanskrit Academy Jhandewalan with Prize money of ₹ 2000/-.

Chinju Rajive, B.Com Programme, I year won a prize of ₹ 2500/- in a Poster Making competition.

Shobha Sharma, B.Sc. (Hons) Chemistry, II year and Priyanka Srivastava, B.Sc. (Hons) Physics, III year, won the prize for best team amongst the 52 teams participated. Priyanka Srivastava, B.Sc. (Hons) Physics III year also won the prize for best interjector.

Seminars Organized

Dr. Jyoti Chauhan, Assistant Professor, Department of Physics, Shivaji College, University of Delhi, Unanswered questions in modern solar astronomy, September 25, 2023.

Seminar/Conference Presentations (National / International)

International

Ajad Singh presented a paper entitled, 'Young labour force in India and its determinants' at an International Conference on Growth, Sustainability and Globalization (ICGSG 2024) organized by Department of Economics, Planning and Development, Gautam Buddha University, Greater Noida from March 8-9, 2024.

Ajad Singh presented a paper entitled, 'Women labour force and its determinants: A statistical inquiry in the Indian context' at an International Seminar on Sustainable Development Goals, organized by Department of Economics, Dyal Singh College and sponsored by NRC-ICSSR from February 26-27, 2024.

Ajad Singh presented a paper entitled, 'A study of women's employment and education trends in India after 1991' at an International Seminar on Sustainable Development Goals, organized by Department of Economics, Dyal Singh College, University of Delhi and sponsored by NRC-ICSSR, February 26-27, 2024.

Ajad Singh presented a paper entitled, 'The power of education: Reducing gender earning inequality in Delhi' in an International Seminar on Indian Knowledge Tradition: History, Present and Future, organized by Motilal Nehru College, Delhi University, New Delhi, April 24-25, 2023.

Deepti Singh presented a paper entitled, 'Impact of Stakeholders on Corporate Social Responsibility Expenditure: An Empirical Investigation' during the 3rd International Conference on Corporate Governance and Sustainable Development Reflecting New Perspectives organized by Global Research Foundation for Corporate Governance in September 2023.

Durgesh Kumar presented a paper entitled, 'On Cellular Menger spaces' at an International conference on Advances in Pure and Applied Mathematics organized by Shyamlal College, University of Delhi on February 8-10, 2024.

Durgesh Kumar presented a paper entitled, ‘On Weakly Cellular -Lindel of Spaces’ at an International Conference of Analysis and Applications organized by Jami -Millia Islamia University from January 19-21, 2024.

Jyoti Chauhan presented a paper entitled, ‘Analysis and measurements of the properties of light through Photonic crystal Fibers’ during an International Conference on Nanotechnology Research and Innovation (ICNTRI-2023) held at the University of Aveiro, Portugal from November 20-24, 2023.

Jyoti Chauhan presented a paper entitled, ‘Ultra-high Numerical Aperture PCF for dispersion Compensation’ during an International Conference on Atomic, Molecular, Material, Nano and Optical Physics with Applications ICAMNOP-2023’ organized by Delhi Technological University on December 20-22, 2023.

National

Devendra Jarwal presented a paper entitled, ‘The key challenges and opportunities faced by businesses during the transition from Industry 4.0 To Industry 5.0’ presented during the 74th All India Commerce Conference – 2023.

Placement Details (Number and percentage of students placed)

Number of students placed: more than 50.

Number of Companies visited for campus recruitment: more than 50.

Extension and Outreach Activities

During the academic year, Dr. Azad Singh was actively engaged in extension and outreach activities aimed at fostering research skills and encouraging students to participate in scholarly endeavours. Collaborating with students, we conducted research projects and published several papers in esteemed journals, contributing to the academic discourse in economics. The following are some of the key extension and outreach activities: Mentoring Student Research: Guided and mentored students in economics honours 3rd year in extracting NSSO data and crafting research papers. Encouraged students to explore various economic topics and provided guidance throughout the research process. Collaborative Research Projects: Led collaborative research projects with motivated students, resulting in the publication of several joint papers.

The college facilitated the development of research skills among students by providing hands-on training in data extraction, analysis, and paper writing. Empowered the students to utilize economic data effectively and communicate their findings through scholarly publications. The college cultivated a culture of scholarly engagement and academic excellence among students by actively involving them in research activities.

Library Development

The college has a rich collection of books, journals and periodicals and at present, college has 1,07,586 volumes. The library subscribes to about 86 periodicals and magazines of scientific and general interest. The library also has more than 22206 books in the book bank/student aid fund section. Library has an up-to-date online catalogue (OPAC) of its holdings for all users, 21 computer stations with internet facility are

also available for the library members. The library has two computer stations with specialized software for visually challenged students. Apart from it, total number of books available in college library - 1,19,408. Library has audio-visual room. The library has an up-to-date on-line catalogue (OPAC) of its holdings for all the users. UGC is facilitating the availability of E-books in the colleges through the "National Library and Information Services infrastructure for scholarly content (N-List)" programme funded by MHRD, Government of India.

The library is presently subscribing to about 104 periodicals, magazines. Newspapers of Library, Scientific and General Interest. Library is functioning under fully computerized environment and using 'NETLIB' Software. Library continues to follow the Open Access system which affords greater convenience to the students. Now we ensure uninterrupted book issue/return to students and staff members..

Faculty Strength

Senior Professor/Professor/Director: 19

Associate Professor: 55

Assistant Professor: 88

Financial Allocation and Utilization

Grant Allocated: ₹ 57,40,66,000/-

Grant Utilized: ₹ 57,60,56,000/-

MOTI LAL NEHRU COLLEGE (EVENING)

Major Activities and Achievements

College participated during the valedictory ceremony of Centenary Celebrations of University of Delhi which was held on June 30, 2023. The grand ceremony was graced by our Honorable Prime Minister of India, Shri Narendra Modi, Honorable Education Minister, Shri Dharmendra Pradhan, and Honorable Vice Chancellor of University of Delhi, Prof. Yogesh Singh. A stall was placed during the Valedictory Exhibition which showcased art and handicraft work of the students of IRIS: The Art and Literary Society. Various forms of Art such as Pichwai, Madhubani, Warli, Pattachitra, Mandala, and Devotional paintings, along with diverse Craftworks like Rajasthani craft, Aboriginal masks, Terracotta, and Fabric paintings were curated in the stall. College witnessed permanent appointments of Assistant Professors in seven departments.

Honours/Distinctions

Faculty

Dr. Sanjiv Ranjan was awarded with his Ph.D. degree from Russian and Central Asian Studies, Jawaharlal Nehru University in June 2023.

Mr. Subodh Kumar submitted his Ph. D entitled "Revisiting the Framework of Centrism: A Study of Indian Politics since the 1990s" in January 2024.

Dr. Bharati Devi received Sevadham Rashtriya Nandini Mitra Award for 2023 during the 39th Ankitgram Rashtrotsav which was organized at Sevadham Ashram, Ujjain.

Students

Sanjana, B. A. Programme, III year, was a recipient of a gold medal in National Games 2023 and Jr. Asian Championship Team. She was also a recipient of a silver medal during the Jr. World Championship and a bronze medal in National Championship, Jr. World Cup, Indian team trials.

Abhay Bisht, student of B.A Programme, III year, was a recipient of Participation Certificate at the 134 kg event during the 37th National Games 2023 held in Goa, from October 31, 2023 - November 3, 2023. He was also a recipient of a Participation Certificate at the 134 kg event in the Senior National Games 2024 held in Pune, Maharashtra, from January 29-31, 2024.

Kartikey Tokas, student of B.A (Hons) History, II year won the Participation Certificate in the swimming event in the 76th Senior National Aquatic Championship 2023 organised by the Swimming Federation of India, from July 2- July 5, 2023

Farzana Khatoon, student of B.A. Programme, II year, secured 1st position in the 44kg event held on March 7, 2024 at Dr. Bharat Ram Sports Meet 2024 which was organized by Lady Shri Ram College for Women, University of Delhi; Secured a 3rd position in the 48kg Senior Judo event held from February 7-13, 2024 during the Delhi Olympic Games 2024, organized by the Delhi Olympic Association; Secured 1st position in the 44kg event held on August 25, 2023 in the 25th Jigoro Kano Judo Championship 2023-24, organized by Distt. Judo Association Gurgaon; Secured 1st position in the 44kg event held on April 11, 2023 in the MSCW Judo Championship 2023, organized by Mata Sundri College for Women, Department of Physical Education & Sports Science, University of Delhi.

Raj Aryan, B.A. (Hons) Political Science, I year secured 1st position in the 230kg Deadlift event held on December 3, 2023, at the Powerlifting Club of Bihar, organized by the World Raw Powerlifting Federation; Secured 2nd position in the 175kg event held on July 2, 2023, at the Deadlift and Benchpress Championship, organized by the Health India Team.

Publications

UGC Care-listed Journals

Bhalla, P. (2023). Perusal and Pervasiveness Corruption: Exploring the Gandhian Perspective. *Gandhi Marg*, 45(2), 151-170.

Bhalla, P. (2023). Relevance of Gandhian economics in the post pandemic world: learning for the path ahead. *International Journal of Indian Culture and Business Management*, 30(2), 228-245.

Journals

English Department. (2023). 'The Aesthetes Literary' 3(3), 1-25.

Seminars Organized

Dr Anil Dutt Mishra, a Retd. Deputy Director, National Gandhi Museum, Anuvrat and Nation-building, April 15, 2024.

Dr. Aman Dua, Centre of Community Medicine, AIIMS, New Delhi, Mental health and substance abuse, February 20, 2024.

Dr M S Xavier Pradheep Singh, Assistant Professor of English, St. Joseph's College, Tiruchirappalli, Tamil Nadu, The Use of Technology in the Teaching of English Literature and English Language, February 9, 2024.

Prof. Mahendra Pal Sharma, Vaishvik Paridrishya main Hindi Ka Swaroop, October 5, 2023.

Shri Manvendra Singh Gohil, a renowned LGBTQ+ rights activist, Awareness of the LGBTQ+ community, June 15, 2023.

Seminar/Conference Presentations (National / International)

International

Pradip Sharan presented a paper entitled, 'Multilingualism and Mother Tongue based Teaching in India: Future of English Language Teaching' during an International ELTAI Conference organized at Uttaranchal University, Dehradun, held from October 11-14, 2023.

Pradip Sharan presented a paper entitled, 'The Future of English Language Teaching in India with the Implementation of the New Education Policy (NEP 2020)' in an online mode during the Asia-Tefl International Conference at Daejeon, South Korea, held from August 17-20, 2023.

Priya Bhalla presented a paper entitled, 'Human Rights and Inequality: Exploring the Economic Perspective' in an online mode at an International Unequal World Conference held on December 11, 2023.

Priya Bhalla presented a paper entitled, 'Traditions of Ecological Prudence and Profligacy of 'Scientific' Forestry in India: From Colonial Times to the Present' at an International G20 conference on "Resilient Approaches for New World Order & Viksit Bharat", organized by Shaheed Bhagat Singh College, University of Delhi on September 25, 2023.

Priyanka Panwar presented a paper entitled, 'Seize the Cup: The Politics of Touch in Literary and Cinematic narratives' at the 9th JGU International Literary Conference on "The Gender Question: Diverse Terrains; Multiple Views" organized by the Office of English & Foreign Languages (OEFL), O.P. Jindal Global University, on December 5-6, 2023.

National

Priya Bhalla presented a paper as a resource person entitled, 'The Political Economy of Gandhian Ideas: A Comparative Analysis' during the Refresher Course in Economics, conducted by UGC-Malaviya Mission Teacher Training Centre (MMTTC), University of Rajasthan, Jaipur on December 6, 2023.

Priya Bhalla presented a paper entitled, 'Relationship between Foreign Direct Investment, Political and Human Capital Factors: Implications on Inequality and Environment' during the National Conference on Industrial Transformation of India: Building an Inclusive, Sustainable and Competitive Manufacturing during October 4-6, 2023.

R. N. Tripathy presented a paper entitled, 'Indian Democracy' at the School of Humanities and Social Sciences, Shri Guru Ram Rai University, Dehradun on February 19, 2024.

R.N Tripathy presented a paper entitled, 'New Education Policy 2020' as a Chief Guest at Sikshajyoti Samman Sammaroh, organized by Forum of Academics, Cuttack, Odisha on September 3, 2023.

Renu Kumari Verma presented a paper entitled, ‘Relevance and Reflection of Dr. Ambedkar’s Ideas: ‘Ujjawala’ an Inculcation of Women Empowerment through Government Policy’ during the National Seminar on Dr. Ambedkar Vision of India and Present Government’s Policies organized by Ambedkar Study Circle, University of Delhi on April 15, 2023.

Other Inter-Institutional Collaboration

Consilium, the consulting society of the college, in collaboration with Futurus, a leading platform to introduce the world of finance, had undertaken several projects. The latter offered a three-month “Certified Financial Analyst program” to selected students. Futurus provided internships to students and helped them with resume-building exercises.

Consilium, in collaboration with SI-UK conducted an educational fair on November 28, 2023, at Shangri-La Hotel in New Delhi. The fair centered on providing information about various scholarship opportunities available for individuals planning to pursue higher education abroad.

Consilium's Educational Session unfolded on November 28, 2023 in collaboration with Big 4. It was a meticulously organized 2-hour event with an attendance of approximately 50-60 participants. The session aimed to provide educational insights and featured esteemed speakers, Mr. Harshit Bansal and Ms. Archita Raina.

The Gandhi Study Circle, in collaboration with Gandhi Bhawan at the University of Delhi North Campus, organized an event to commemorate the International Day of Non-Violence on October 2, 2023.

Extension and Outreach Activities

North-East Cell organized a blood donation camp jointly with North East Students' Society Delhi University (NESSDU) and All India Institute of Medical Sciences (AIIMS) on February 19, 2024. North-East Cell also collaborated in organizing a donation drive to extend help to the states of Sikkim and Manipur along with the NESSDU.

Gender Champion club organized an orientation program along with the screening of two documentaries on November 8, 2023. The club screened, 'Devi' and 'Sisak' which aimed to spread awareness about Women's harassment and Gay love respectively.

NSS team organized a Cleanliness Drive on the occasion of Gandhi Jayanti on October 1, 2023 under the “Swachhata hi Seva campaign” in the residential area around the college campus.

Library Development

The library has facilities which include a reading room for the teachers, photostat machines, and computers for visually challenged members. The library has subscribed to all major dailies. The library has UGC UGC-initiated network, INFLIBNET, and NLIST which gives access to thousands of e-journals and e-books to the students and teachers. The library has an OPAC facility for making the search easy. The library has 78681 books on various subjects. In the year 2023-24, the library added 1012 books to the collection.

Faculty Strength

Senior Professor/Professor/Director: 7

Associate Professor: 17

Assistant Professor: 69

Guests: 11

Financial Allocation and Utilization

Grant Allocated: ₹ 36,05,67,608/-

Grant Utilized: ₹ 33,23,64,116/-

PT. DEENDAYAL UPADHYAYA NATIONAL INSTITUTE FOR PERSONS WITH PHYSICAL DISABILITIES (DIVYANGJAN)

Major Activities and Achievements

Major activities of the college include the following: College celebrated a Purple Fest at Rashtrapati Bhawan on February 26, 2024 and a World Physiotherapy Day on September 8, 2023. White Cane and World Sight Day was celebrated on October 13, 2023 and October 16, 2023 respectively. World Occupational Therapy Day was celebrated on October 28, 2023.

Honours/Distinctions

Faculty

Dr. Akhilesh Kumar Shukla, Associate Professor (OT); Dr. Arun Kishore, Lecturer (OT); Dr. Anoop Aggarwal, Senior (PT) were awarded with Ph.D. degrees.

Mr. Manish Panchal, (PT) and Mr. Himanshu Walia, (PT) posted at National Institute of Rehabilitation Training and Research (NIRTAR) for one-week for training in manual therapy in January, 2024.

One faculty member was deputed at SVNIRTAR, CDEIC on September 25-26, 2023. Two faculty members were deputed at AYJISH, Mumbai on January 19, 2024. Two faculty members were deputed at National Institute for Locomotor Disabilities at Baranagar, Kolkata from January 22-25, 2024.

Students

Vaishnavi Singh, BPO Programme secured 1st position with 81.88%.

Vidur Jamdagni, BPT Programme secured 1st position with 78.47 %.

Karan Bir Singh, MPO Programme secured 1st position with 75.12%.

Muskan Bansal, BOT Programme secured 1st position with 74.25 %.

Publications

Scopus Indexed Journal

Arya, K. N., Pandian, S., Pandey, D., Agarwal, G. G., & Chaudhary, N. (2024). Task-based and Magnified Mirror Therapy for Unilateral Spatial Neglect among post-stroke subjects: Study protocol for a randomized controlled trial. *Plos One*, 19(1), e0296276.

Research Projects

Dr. Kamal Narayan Arya project entitled, 'Task-based and Magnified Mirror Therapy for Unilateral Spatial Neglect among Post-Stroke subject: A Randomized Controlled trial' sanctioned by Indian Council of Medical Research for ₹ 7.03 lakhs.

Dr. Amit Kumar Vimal project entitled, 'Custom made Foot Orthosis to prevent the internal tibial rotation during weight bearing in patients with medial compartment Knee osteoarthritis with flat foot' sanctioned by SERB, DST Government of India for ₹ 42 lakhs.

Seminars Organized

Dr. Kamal Narayan Arya, Ethics in Research, April 27, 2023.

Dr. Abha Sharma, Chief Physiotherapy, Holy Family Hospital, Multi Sclerosis Day, May 30, 2023.

Dr. V.P Gupta, Professor, Faculty of Allied Health Science, Manav Rachna University, Physiotherapy profession and evolution of in CTVS, September 8, 2023.

Seminar/Conference Presentations (National / International)

Gunjan Wadhwa presented a paper entitled, 'Factors influencing the use of mobile health technology in context to improving mental health of older adults: A scoping review' during the 2nd International Conference organized by Department of Psychology, KAHER from March 27-28, 2024.

Gunjan Wadhwa presented a paper entitled, 'Usability challenges of mobile health technologies developed for community dwelling older adults: a Scoping Review' during the 5th International Conference organized by IMHRC on October 28-29, 2023.

Indra Vijay Singh presented a paper entitled, 'A Literature review : Pediatrics Congenital transverse (Peromelia) of the upper limb and advanced prosthesis and abandonment' during the ISPO 19th World Congress held at Expo Guadalajara, Jalisco, Mexico from April 24-27, 2023.

Madhuchhanda Mohanty presented a paper entitled, 'Physical, Cognitive, and psychosocial intervention in older with subjective cognitive decline: Clinical protocol for a randomized controlled trial' at the Gericon 2023 on September 28, 2023.

Manju Vats presented a paper entitled, 'Comparative effects of dynamic Neuromuscular stabilization exercises on lumbar Proprioception, movement control and functional activity limitation in Movement Control Impairment subgroup of non-specific Chronic Low Back Pain: RCT Interim Analysis' in an online mode at the Spine-Physiocon-24, An International Conference, organized by Physio Bharat in association with CK Birla Hospital, Gurugram on February 17, 2024.

Manju Vats presented a paper entitled, 'Effects of Dynamic Neuromuscular stabilization exercises on pain, function, and movement-related fear in non-specific chronic low back pain Individuals with Movement Control Impairment: Interim Analysis of Randomized Controlled Trial' at the 9th International Conference of Physical Therapy (INCPT AIIMS-2023) organized by AIIMS, New Delhi on December 24, 2024.

Manju Vats presented a paper entitled, 'Efficacy of dynamic neuromuscular stabilization exercises in adults with low back pain and movement control impairment: A Prospective Randomized Controlled Pilot Study' at the 3rd BRICSCESS, an International Conference on BRICS Exercise & Sports Science organized by

Manav Rachna International Institute of Research & Studies, Faridabad, Haryana and held on February 26-29, 2024.

Meenakshi Batra presented two papers entitled, 'Landscaping therapeutic powers of play in children with neurodevelopmental disabilities' and 'Understanding functional correlates of dynamics of squatting during its movement transition from stand to squat in patients with early degenerative changes at knee' during the OTICON 2024 (AIOTA Conference) held on January 19-21, 2024.

Other Inter-Institutional Collaboration

Institute has renewed the collaboration with Maulana Azad Medical College and Hospital, Delhi for its regular Medical classes for students.

Institute has renewed the collaboration with LNJP Hospital, Delhi for regular Medical classes of its students.

Collaboration with ISIC Institute of Rehabilitation Sciences, Delhi is under process.

Placement Details (Number and percentage of students placed)

Number of students placed: 161 BPT, BOT, BPO.

Number of Companies visited for campus recruitment: 20.

Extension and Outreach Activities

Four faculty members from Department of Occupational Therapy were deputed for Inspection of National Scholarship program for the Disabled in August 2023.

Four faculty members from Department of Occupational Therapy were deputed for Inspection of Centres of National Trust in November 2023.

Two faculty members from Department of Occupational Therapy were deputed for PM-SURAJ program in March 2024.

One faculty member from Department of Occupational Therapy was deputed at CRC Jammu from December 25-19, 2023 for Inauguration of CRC, Jammu.

One faculty member from Department of Occupational Therapy was deputed to attend Autism conclave on May 30, 2023 at NISD, Dwarka.

Two faculty members from Department of Occupational Therapy were deputed to attend POSH training in October 2023 and January 2024.

ADIP out-reach activities assessment campus conducted at Five district under North-Eastern region in last financial year.

Two staff members – Dr. Anoop Agrawal, Sr. PT and Mr. Anoop Tarsolia, Demo. PT were deputed at Purple Fest held at Goa from January 7-14, 2024.

Ms. Anju Aggarwal, Lecturer, PT, Mr. Pradeep Marandi, Supdt. PT, Ms. Sheelu Sharma, Sr. PT were deputed at event of Purple Fest held at Rashtrapati Bhawan, in February, 2024.

Staff from Delhi Policed visited for training and different issues/aspect of Rehabilitation for their upcoming wellness Centers.

Sensitization workshop on Prevention of Sexual Harassment (POSH) at workplace training at Central Health Education Bureau held on January 31, 2024.

Library Development

281 professional and non-professional books were purchased for an amount of ₹ 1136529/-. Del-Net subscription was taken for ₹ 13570/- for one year.

Faculty Strength

Senior Professor/Professor/Director: 01

Associate Professor: 02

Assistant Professor: 06

Guests: 34

Financial Allocation and Utilization

Grant Allocated: ₹ 37,60,00,000/-

Grant Utilized: ₹ 30,40,00,000/-.

P.G.D.A.V. COLLEGE

Major Activities and Achievements

PGDAV College successfully promoted 15 faculty members and appointed 42 permanent faculty members in different departments. The college organised various programmes, seminars, talks, and student activities for the G20 summit held in New Delhi under the presidency of India. Like previous years, college conducted various popular online certificate courses for students. The NSS unit of the college participated in the National Integration camp at Mangaluru, Karnataka. One of our students won the gold medal at the National Integration Camp 2023. For the first time, the college participated in the NIRF 2023 and was placed in the band of 101-150. The College has applied for the NAAC Cycle 2. A separate medical room was built for the students and faculty. In the last year, a new seating area adjacent to the canteen was also built.

Honours/Distinctions

Faculty

Dr Kiran Yadav and Dr Shikha Daga received the best paper award in the third International Conference of GRFCG held on September 16-17, 2023 at the Constitution Club of India.

Students

Neha Dev, Vinita Jain and Vijay Laxmi had distinction in the M. Com programme of the college.

Vanshika Tiwari was the college topper in the B. Sc. (Hons) Statistics programme.

Harshit Budakoti was the college topper in the B. Sc. (Hons) Mathematical Scienced programme.

Publications

Scopus Indexed Journals

Jonwall, R., Gupta, S., & Pahuja, S. (2023). A comparison of investment behavior, attitudes, and demographics of socially responsible and conventional investors in India. *Social Responsibility Journal*, 19(6), 1123-1141.

Jonwall, R., Gupta, S., & Pahuja, S. (2023). Socially responsible investment behavior: A study of individual investors from India. *Review of Behavioral Finance*, 15(6), 865-888.

UGC Care-listed Journals

Aggarwal, S., Aggarwal, G., & Bansal, M. Crime Against Women and Girls in Indian states: Analysis, Visualization and Prediction.

Aggarwal, S., Aggarwal, G., & Bansal, M. Crime Against Women and Girls in Indian states: Analysis, Visualization and Prediction. *International Journal of Innovation and Multidisciplinary Research (IJAMR)*, 4(3), 21-31.

Sharma, R. Sacred Sarasvati: The River in Indian Culture. *Summerhill: IAS Review*, 29(1), 64-69.

Srivastava, G. G. (2023). Use of Social Media Platforms in Marketing of Library & Information Science Product and Services in University Libraries in Delhi: A Comparative Study. *Library Herald*, 61(2), 144-158.

Web of Science Indexed Journals

Kumar, D., & Bura, G. S. (2024). Transient solution of a Two Homogeneous Servers Markovian Queueing System with Environmental, Catastrophic and Restoration Effects. *International Journal of Mathematics and Statistics Studies*, 12(1), 45-53.

Kumar, D. (2024). Transient Analysis of a limited capacity queueing model with Environmental Change and Catastrophic Effects. *Journal of Mathematics*, 20(1), 52-58.

Research Projects

Dr Duryodhan Nahak project entitled, 'Politics of water in Indo-Pak Relations: A study on the Indian Riparian States of Indus River its Tributaries' and sponsored by Indian Council for Social Sciences Research for ₹ 5 lakhs.

Dr Pardeep Singh and Dr Chhetan Chhoidub project entitled, 'Assessing the Role and Contribution of Traditional/local knowledge system for Sustainable Development in the Indian Himalayan Region,' and sponsored by Indian Council for Social Sciences Research for ₹ 15 lakhs.

Seminars Organized

Prof. Shamika Ravi, Member, Economic Advisory Council to the Prime Minister, Secy. Government of India, Vikshit Bharat @ 2047: Challenges & Roadmap, March 19, 2024.

Prof Nivedita Majumdar, Professor, John Jay College, City University of New York, USA, Silencing the Subaltern: Gender and Resistance in Postcolonial Theory, June 26, 2023.

Ms. Niyati Sharma, Advocate, Delhi High Court, Sexual Harassment Act 2013, October 31, 2023.

Seminar/Conference Presentations (National / International)

International

Phool Chand presented two research papers entitled ‘Can Fintech Contribute to Sustainable Rural Development in India?’ and ‘Democratizing India's Digital Marketplace with ONDC: Pushing Digital Economy and Sustainability’ at an International Conference organised by IIM Ranchi from December 26-29, 2023.

Rajni presented a paper entitled, ‘Capacitated Facility Location with Outliers and Uniform Facility Costs’ during the Conference on Integer Programming and Combinatorial Optimization held at Poland from July 1-3, 2024.

Varun Bhushan presented two research papers entitled ‘Women’s Demographic Dividend in India: A State level Analysis’ and ‘Does Empowerment in Normative Dimensions Cause Empowerment in Cognitive and Regulatory Dimensions? Evidence from Women Micro-Finance SHGs in Palwal District of Haryana’ at an International Seminar on Sustainable Development Goals held at Dyal Singh College, University of Delhi and sponsored by NRC-ICSSR from February 26-27, 2024.

National

Purnima Bindal presented a paper entitled, ‘Citation-Based summarization of landmark judgement’ in the 20th International Conference on Natural Language Processing held at Goa University from December 14-17, 2023.

Preeti Lakhani presented a paper entitled, ‘Review: Machine Learning-Based Network Intrusion Detection System for Enhanced Cyber-security’ at an International Conference of Advancement of Intelligent Computational Methods and Technologies (AICMT'23) held at Delhi Technical Uampus, affiliated by GGSIP University, New Delhi.

Rimjhim Sharma presented a paper entitled ‘Copper Workings and Ritual Artefacts in the Chotanagpur Region: A Survey of Typological Variations’ in an International Conference on “Minerals, Mining and Metallurgy in South Asia: Historical Perspectives” organised by Mohanlal Sukhadia University, on January 11-12, 2024.

National/International MoUs Signed

MoU was signed with the University of Tyumen (also known as Tyumen State University, Russia).

MoU was signed with IIIDE Education Pvt. Ltd.

Placement Details (Number and percentage of students placed)

Number of students placed: 49.

Number of Companies visited for campus recruitment: 51.

Extension and Outreach Activities

College conducted several social initiatives drives such as : Waste management drive; Maintaining plastic-free campus; Food donation drive for Yamuna flood-affected people organised by the NSS unit of the

college; A cloth collection drive was organised and the clothes were donated to needy and underprivileged people; and a Campaign to promote cleanliness and hygiene around the college campus was also conducted.

In order to promote Made in India products, Khadi Mahotsav was organised in the campus. A blood donation camp was also organised on the occasion of the 200th birth anniversary of Maharshi Dayanand Saraswati. An awareness session on menstruation health hygiene was organised by the College.

Library Development

College library has a treasure trove of 1,05,706 books and 4546 bound volumes of Journals. A total of 1799 books worth Rs.13,66,349/- were purchased during this academic year. In addition, 65 periodicals and 18 newspapers are regularly subscribed in the college. The library is computerized and open on all working days from 8:30 am to 5 pm. Faculty and students have free access to both conventional as well as electronic resources like the e-resources of the Delhi University Library System (DULS), DU eLibrary, N-LIST e-resources, DELNET e-resources, etc. Students and faculty highly benefitted from this facility. The E-Library, which is a dedicated computer lab for the students of the college, is functioning to support the studies and maximise the use of E-resources and facilitate internet browsing for academic purposes. The reference section cum conference room is open for academic events to take place. The library is treasured with the valuable 'TALKING GITA' Signature Edition, available in 15 Languages.

The library procured two units of new OPAC. These have the latest features, like a touch screen, to enable users to locate library resources easily. From the current session, the library has also introduced a patron tracking system where the automated footfall of the library users is registered via their valid ID Card.

Library has an enriched bank collection of 12535 books for needy students. Meritorious and deserving students get books for the entire semester at no additional cost. The college library supports differently abled users through numerous assistive devices and softwares, such as Braille s/w JAWS, ANGEL DAISY Reader, MP3 Recorder, Laptops, Zoom Ex Instant Text Reader, Lex Portable Camera, etc., for teaching and learning. Access to the Braille Library and Sound Recording Facility is also provided to visually impaired students. Five computer workstations are dedicated to this purpose. The library also subscribes to 'White Print', an English Braille magazine.

Continuous orientation programs are conducted to guide students to use the library resources effectively. An Information Literacy program was conducted on PUSTAKALAYA KO JANO / KNOW YOUR LIBRARY for the newly admitted students of the college. It was a four-day program that received an overwhelming response from the students. The students were made aware of the available library resources, open educational resources, NLIST resources and DELNET resources.

To motivate library users, inculcate reading habits, and provide a wider platform for book selection, the college library organised a BOOK FAIR on February 7, 2024. Leading publishers across all disciplines were invited to display their collections. The faculty and students of the college responded overwhelmingly.

The academic visit of GLT Saraswati Bal Mandir students to our college library was well organised. As part of their academic tour, 38 students were exposed to routine library operations. The students were very enthusiastic about interacting with the library staff and the facilities provided to the college students.

The visit of Russian Delegates from HSE University Russia to our college to explore the possibilities for collaboration in research was recorded. The guests conversed with the students and faculty members and

visited the library. They appreciated the infrastructure, collection, and facilities available for the students and researchers.

College Library also imparts training to students pursuing careers in Library Science. This year, two students from IGNOU and three students from SOL, University of Delhi, were trained in providing library services and routine operations.

Faculty Strength

Senior Professor/Professor/Director: 20

Associate Professor: 41

Assistant Professor: 111

Guests: 10

Financial Allocation and Utilization

Grant Allocated: ₹ 69,20,23,377/-

Grant Utilized: ₹ 69,65,78,616/-

P.G.D.A.V. COLLEGE (EVENING)

Major Activities and Achievements

P.G.D.A.V. College (Evening) has been selected as 'Designated Nodal Centre' by the Cultural Council, University of Delhi. The college was also one of 15 colleges selected by the University of Delhi to celebrate G20 Events with Germany being the allocated Country of focus. Honorable Vice Chancellor of University of Delhi presented a trophy and certificate to the college for the successful organization of the G20 function during the month of 2023.

The college observes Vigilance Awareness Week each year to inculcate the sense of responsibility and awareness about the corruption mitigation in the students and staff. Vigilance Awareness Week 2023 with the theme "Say no to corruption; commit to the Nation" was organized.

A Refresher Course on 'Tribal Culture, Heritage and Folklores' was organized by Centre for Professional Development in Higher Education (CPDHE), University of Delhi in collaboration with the college from February 15-28, 2024.

College received the 'Value-Based Academic Achievement Award' from Indian Institute of Ecology and Environment at the Spiritual and Value Education Summit held at the India International Centre.

College was awarded with 'Academic Ascendancy Excellence Award' at the 20th Annual Day Celebration of the Confederation of Indian Universities on December 29, 2023.

Indian Pollution Control Association (IPCA) and Swarnlata Motherson Trust jointly awarded the college a first prize in the Gold Category for the segregation of organic waste for recycling and treatment.

Mr. Atul Kothari, National Director of Education Culture Upliftment Trust, honoured the college Principal, Prof. R.K. Gupta. and students on the special occasion of the International Mother Language Day concluding ceremony held at Mata Sundri College, University of Delhi.

Honours/Distinctions

Faculty

Prof. (Dr) R.K. Gupta was recipient of “National Youth Icon Award” conferred by International Council for Education, Research and Training (ICERT) on January 12, 2024.

Dr. Sonika Nagpal was also a recipient of “National Youth Icon Award” conferred by International Council for Education, Research and Training (ICERT) on January 12, 2024.

Students

Chitranshan Thakur of B.Sc. (Hons) Mathematics; Ishant of B.Com. (Hons); Dinkar Kumar of B.A.(Hons) Sanskrit were the college toppers in their respective Programmes.

Chetan of B.A. Programme III year secured 1st position (Gold Medal) in Delhi University Inter College Boxing Championship and represented University of Delhi and participated in North East Zone India Inter University Boxing Championship at Chandigarh University. He also secured 3rd Position (Bronze Medal) in Delhi Senior state Boxing championship.

Ronak of B.A. Programme I year secured 1st Position (Gold Medal) in Delhi University Inter College Weightlifting Championship. He also secured 2nd Position (Silver Medal) in Delhi State Weightlifting Championship.

Gurudev of B.A. Programme III year secured 1st Position (Gold Medal) in Javelin throw in Delhi University Inter College Athletic Championship and 2nd Position (Silver Medal) in Discuss throw.

Pratham Singh of B.A. Programme I year secured 1st Position (Gold Medal) in Delhi Olympic Taekwondo Sports Competitions.

P.G.D.A.V. College (Eve) Volley Ball (Men) team performed very well and secured 1st position in Maharaj Agrasen open invitational inter college Volley Ball Championship.

Seminars Organized

Shri. Alok Kumar, Senior Advocate and International President, Vishwa Hindu Parishad, Bharat Bharti, Delhi Province, Akhand Bharat Resolution Day, August 14, 2023.

Prof. P. C.Tandon, Hindi Department, University of Delhi and also member of Sikh Gurudwara Management Committee, Mutual harmony and thoughts of Guru Gobind Singh Ji in the present context, April 13, 2024.

Prof. Bhartendu Pandey, Prof. Meera Dwivedi and Devvani Parishad, Contribution of Padmashri Ramakant Shukla to Sanskrit Literature, August 26, 2023.

Hon’ble Sh. Gurjeet Singh Ji, Former Indian Ambassador to Germany; Prof. Umma Salma Bava, Professor, Kawaharlal Nehru University and Mr. Jonas T. Madsen, Jean Monnet Chair Department of Economic &

Global Affairs, Culture Council, University of Delhi, G-20 Indo-German Symposium Cultural Extravaganza, October 31, 2023.

Mr. Raghuveer Sharma, Assistant Director, Rajbhasha Department, Home Ministry, Rajbhasha Prakost, Use of official language Hindi in Administration: Practical difficulties and solution, November 13, 2023.

Conferences Organized

Conference entitled, 'Changing global dynamics in law, social science, science and engineering' was organized on August 13, 2023 and sponsored by International Council for Education Research and Training (ICERT).

Conference entitled, 'Recent advancement in education, research, Social Science, Science & Engineering' was organized on January 12, 2024 and sponsored by International Council for Education Research and Training (ICERT).

Conference entitled, 'Nurturing startup and Entrepreneurial culture in VIKSIT BHARAT@2047: Conquering challenges and embracing opportunities' was organized on March 8, 2024 and sponsored by Indian Council of Social Science Research.

Seminar/Conference Presentations (National / International)

International

Ramesh Kumar presented a paper entitled, 'Innovation and Modern Payment System – a Study of Modern Payment Modes' in an International Conference on Creativity, Innovation & Advances in Research world: One Earth, One Family, One Future organised by Faculty of Commerce & Business Studies, Motherhood University, Roorkee (UK) on December 15-16, 2023.

Ramesh Kumar presented a paper entitled, 'Review Study On The Modern Payment Methods with Respect to Customers In Rural Area' in an International Conference on Innovative sustainable Practices: A Global Multidisciplinary Approach organized by Business School, The Assam Kaziranga University and Inspira Research Association (IRA) on June 1-2, 2023.

National

Ramesh Kumar presented a paper entitled, 'Virtual Workplace Empowering the Environmental Sustainability: Challenges and Opportunities' during the National Seminar on Sustainable Business Practices organized by Department of Commerce, Mahatma Gandhi Central University, Bihar on February 29, 2024.

Ramesh Kumar presented a paper entitled, 'Achieving the Vikist Bharat@2047 with Higher Education Reform' in the Multidisciplinary National seminar on Aatmanirbhar Bharat @2047: Challenges and Opportunities organised by Department of Economics, Saraswati Mahila Mahavidyalaya, Palwal, Haryana held on February 23, 2024.

Ramesh Kumar presented a paper entitled, 'Impact of Financial Literary Awareness on the use of Modern Payment system a study of Rural Customer' in the National Seminar on impact of Digital Technology on society : Prospects and Challenges organized by Department of Sociology, Sakaldiha P.G. College Sakaldiha, Chandauli (UP) and sponsored by ICSSR on January 20-21, 2024.

Ramesh Kumar presented a paper entitled, 'Innovation in Higher Education : A Study of NEP 2020' in the International Conference on Innovative Practices in Multidisciplinary Research organised by Sanskriti Institute of Education and Technology, Narnaul, Haryana on December 3, 2023.

Ramesh Kumar presented a paper entitled, 'Challenges of Modern Payment System in India – A Study of Rural Area' in the International E-Conference on Challenges and Prospects in Sustainable Business Development organised by School of Business Management Chhatrapati Shahu Ji Maharaj University Kanpur, UP on November 21-22, 2023.

Ramesh Kumar presented a paper entitled, 'New Education Policy 2020: Challenges and Opportunities' in the National Seminar on Catalysing quality Academic Research: An Essential Key Point in NEP 2020 organized by Saraswati Mahila Mahavidyalaya , Palwal, Haryana on November 18, 2023.

Ramesh Kumar presented a paper entitled, 'New Education Policy 2020 and Commerce Education: Challenges and Opportunities' in National seminar on National Education Policy 2020 at Govt. College Bherian, Pheowa, Kurukshetra, Haryana on November 4, 2023.

Ramesh Kumar presented a paper entitled, 'Modern Payment system with respect to the rural area: Challenges and Prospects' in National Seminar on Achieving Sustainability @75: India's March toward becoming a Developed Nation by 2047, sponsored by ICSSR at Department of Commerce, MDU, Rothak, Haryana on October 11-12, 2023.

National/International MoUs Signed

MoUs signed with Sewa Bharti on April 5, 2023 ; Talf Energy India Pvt. Ltd. on April 13, 2023 ; Learning Links Foundation on June 16, 2023 ; M/s Ideas Inc. Management Pvt. Ltd. November 1, 2023.

Other Inter-Institutional Collaboration

College collaborated with Department of Germanic and Romance Studies, Kamala Nehru College, and Dyal Singh College to organize event on "Indo-German Relations: Current Scenario and Future Prospects" under the aegis of G20 related activities of University of Delhi.

Collaborated with Akashvani, Delhi to organize a Humorous Kavi Sammlan on. March 12, 2024.

Indian Languages Committee (Ministry of Education, Government of India), Arundhati Indian Knowledge Tradition Center and college jointly organized a Jagatguru Shri Shankaracharya Lecture Series titled, 'Jagatguru Shri Shankaracharya and Unity of India'.

Fractals: The Mathematics Society of college in collaboration with Education culture Upliftment Trust celebrated National Mathematics week (December 18-24, 2023) on the occasion of 136th Anniversary of Srinivasa Ramanujan, the great Mathematician of India. .

Commerce Association, Placement Cell, IQAC, Foreign Students Cell and Career Guidance Committee of college in collaboration with Jamboree Education organized a seminar entitled, 'Start your dream study abroad'.

The inter college debate competition "Beyond the Stigma" was a remarkable event organised by the Red Ribbon Club Society of the college to raise awareness about HIV/AIDS.

Innovation Council /Skill Innovation and Entrepreneurship Cell, Commerce Association, Enactus in collaboration with Triumphant Institution of management Education (T.I.M.E.) jointly organized a webinar on “Entrepreneurship and innovation as career opportunity” on October 28, 2023.

Innovation Council /Skill Innovation and Entrepreneurship Cell, Commerce Association, and Udhmodya foundation jointly organized a webinar on Problems solving and ideation on September 30, 2023.

Collaboration with Water Rights foundation, Gandhi Smriti and Darshan & Rashtriya Swabhiman Andolan on the occasion of ‘World Water Day’ and jointly organized a programme on March 23, 2024.

Culture and Ethics Cell of the college in collaboration with BRAHMA KUMARIS organized a talk on “Power of blessing to attain the goal” on August 9, 2023 and another one on “How to lead a lotus like life” on July 29, 2023.

Placement Details (Number and percentage of students placed)

Number of students placed: 19.

Number of Companies visited for campus recruitment: 5.

Extension and Outreach Activities

NSS honoured Kargil Vijay Diwas on July 26, 2023 with Chief Guests Col. K K Sharma and Col. Rajyavardhan Singh Rathore. NSS organized 'Ullas' Annual Cultural event, featuring dance and singing performances, a community outreach activity picking up slum children, and culminating in the launch of the NSS Magazine on August 5, 2023. NSS organized a rally on "Say No to Drugs" involving NSS volunteers and pathshala children, with a route from the college to Nehru Nagar slum, culminating in a pledge for a drug-free India.

"Meri Mati, Mera Desh" program was organized by NSS with an aim to unite people and honor freedom fighters. The event involved the college community, including the Principal, NSS Coordinator, and Program Officer, spreading awareness and paying tribute to soldiers through a pledge and Kalash Yatra on October 28, 2023. A march was jointly organized by the National Self Respect Movement and college involving NSS volunteers and social workers on January 14, 2024. The event included darshan at Rajghat, Padh Yatra, and a gathering at Udasin Harihar Ashram for Makar Sankranti celebrations and feeding cows, fostering community spirit.

NSS, Subhashish Cell, and Yuva Cell visited an Old Age Home in Okhla Vihar, fostering empathy and understanding among volunteers while providing companionship and support to the elderly, creating cherished memories and exemplifying community service's essence. On February 13, 2024, the NSS unit conducted a clothes distribution drive under Project KHUSHI, distributing to approximately 500 -700 clothes to construction workers, slum residents, and the needy, spreading happiness and creating memorable moments.

Shubh Ashish Society is continuously developing more and more college students as socially responsible citizens by involving them in family activities and service work. For this work, a team of 10 to 15 students from this committee is continuously serving more than 250 homeless, disabled elderly people in the old age home and people suffering from visual impairment in the Blind relief association.

Mock MUN conference was organised by SRISHTI- The Environment society in collaboration with ABHIVYAKTI (The Youth Parliament Society), SAVI, Samprabhu, and IQAC of the college on September

23, 2023. The main objective of the event was to simulate the proceedings of the United Nations. It provided a platform for students to engage in diplomacy, international affairs, and negotiation. The conference followed a structured agenda, which included various key components.

Library Development

An Orientation Programme was conducted by the Library of P.G.D.A.V. College (Eve) in the college library on February 1-5, 2024 for the 1st semester students. During the programme, the Library Incharge gave a power point presentation regarding the details of Library, its concept, Library's importance on student's life, College Library's facility and services, how to activate N-LIST, e-remote access it's uses, e-journal, e-books, etc. of College Library.

Faculty Strength

Senior Professor/Professor/Director: 12

Associate Professor: 18

Assistant Professor: 47

Guests: 7

Financial Allocation and Utilization

Grant Allocated: ₹ 33,57,39,000/-

Grant Utilized: ₹ 32,93,56,519/-.

RAJDHANI COLLEGE

Brief History of the College

Rajdhani College is a constituent college of the University of Delhi. It was established in 1964 by the Delhi Administration under the name of Government College. The college acquired its new name when the Delhi Administration vested its governance in an autonomous governing body. Rajdhani College is an South Campus College.

Publications

Scopus Indexed Journals

Anand, S., Jain, N. K., & Kumar, S. (2023). Normalized analytic functions with fixed second coefficient. *The Journal of Analysis*, 31(3), 1917-1938.

Ghosh, B. P., Arora, U., & Mohanty, R. K. (2023). A High Resolution Half-step Numerical Approximation for 1D Quasilinear Hyperbolic Partial Differential Equations on a Time Variable Mesh. *Palestine Journal of Mathematics*, 12.

Ghosh, B. P., Arora, U., & Mohanty, R. K. (2023). A High Resolution Half-step Numerical Approximation for 1D Quasilinear Hyperbolic Partial Differential Equations on a Time Variable Mesh. *Palestine Journal of Mathematics*, 12.

Giri, R., & Payal, R. (2023). Insights into the electronic properties of coumarins: A comparative study. *Physical Chemistry Research*, 11(2), 267-286.

Wani, I. A., & Agarwal, M. (2023). Solving the ambiguity of microfinance and intimate partner violence: a PRISMA-compliant meta-analysis study. *International Journal of Critical Accounting*, 13(2), 93-112.

Wani, I. A., & Agarwal, M. (2023). Solving the ambiguity of microfinance and intimate partner violence: a PRISMA-compliant meta-analysis study. *International Journal of Critical Accounting*, 13(2), 93-112.

Wani, I. A., & Agarwal, M. (2023). The trilogy of micro-finance, FinTech and women-empowerment: an empirical investigation based in rural Himalayas. *International Journal of Electronic Finance*, 12(3), 215-237.

Wani, I. A., & Agarwal, M. (2023). The trilogy of micro-finance, FinTech and women-empowerment: an empirical investigation based in rural Himalayas. *International Journal of Electronic Finance*, 12(3), 215-237.

UGC Care-list Indexed Journals

Gargesh, R. & Singh, C.S. (2023). An Acoustic Analysis of Uzbek Vowels. *Aligarh Journal of Linguistics*, 12, 279-290.

Research Projects

ICSSR, Skill India Mission: Pradhan Manti Kaushal Vikas Yojana. Sanctioned amount of Rs. 1.3 Lakhs. PI: Prof. Sushil Dutt.

ICSSR, Short Term Empirical Research Project. Sanctioned amount of Rs. 6 Lakhs. PI: Prof. Barun Kumar Mishra.

SERB, Semi-Linear Partial Differential Equation Driven by cylindrical levy process in branch space. Sanctioned amount of Rs. 6.05 Lakhs. PI: Dr. Umesh Kumar.

ICSSR, Platform work and indian youth precariousness and vulnerability. Sanctioned amount of Rs.4.6 Lakhs. PI: Dr. Ganita Bhupal.

ICHR, Swaraj, Swabhasha and Swadharma: Historicizing Maharishi Dayanand Saraswati for new India. Sanctioned amount of Rs. 2 Lakhs. PI: Dr. Anil Kumar.

Seminars Organized

Seminar on Cyber security awareness by Mr. Vikas Nigam, VP and Business head – Govt. BU Paradigm IT on October 12, 2023.

Conferences Organized

International Conference on ‘Digital Transformation Towards Sustainable Development in Future’ on March 14, 2024.

National Conference on ‘Advance in Nanomaterials and Nanotechnology (ANN 2024)’ on March 20, 2024.

Seminar/Conference Presentations (National / International)

National

Jasvir Dalal delivered a paper presentation in workshops/seminars in National Conference on Functional Materials & Sensors organized by the Department of Physics, Maharshi Dayanand University, Rohtak, India, February 16-17, 2024.

Mhadeno Jungi presented a paper entitled 'Justice, Governance and Sustainability: Policies on Forest in Nagaland' in two days National seminar on India's G20 Presidency: Accelerating the Achievement of the Sustainable Development Goals (SDGs) on January 31, 2024.

Satish Kumar presented a research paper in National Seminar organized by SSIS, JNU (New Delhi) & Maharshi Sandipani Rashtriya Veda Vidya Pratishthan Ujjain, MP on the topic 'बहसि दमान द का या टकम भच तन' during February 23-25, 2024.

Laxmi, presented a research paper entitled, 'Electronic Voting System Using Blockchain Technology' in 9th Global Leadership Research Conference organized by Amity Business School, Noida during February 7-9, 2024.

Sunil Babu presented a research paper in a three-day International conference organized by Central University of Odisha, Koraput, Odisha during December 7-9, 2023.

Jasveer Tyagi presented a paper on the topic 'Social Media and Literature' in two days international conference on "Role of journalism in nation building" organized by Gautam Buddha University in collaboration with SAARC journalist on January 10-11, 2023.

Mr. Siddheshwar Prasad Shukla presided over a session at an international conference on Buddhism and Archaeology held at Gautam Buddha University and presented a paper on Buddhism in Central Asia'.

National/International MoUs Signed

A MoU with the Institute of Chartered Accountant

A MoU with Delhi Technical University

Placement Details

No. of students placed

115

Number of Companies visited for campus recruitment

370

Library Development

The College library boasts an extensive collection of scholarly materials, comprising over 1.48+ lakh books covering various subjects. Additionally, the library provides access to 33 newspapers and approximately 60 periodicals, enriching the academic experience of our users. Embracing technological advancements,

library is a member of both DELNET and the N-List program of UGC INFONET. Through DELNET, users can tap into a vast repository of resources, including over 4 crore books, 1.12 lakh journals, 5,000+ full-text e-journals, and 1.45 lakh thesis/dissertations. Similarly, the N-List program grants access to over 6,000 e-journals and 199,500 e-books, facilitating remote login for convenience. The library prioritizes user comfort and accessibility. The reading room is fully air-conditioned, ensuring a conducive environment for study and research. Additionally, we've established an exclusive air-conditioned faculty reading corner, acknowledging the needs of our teaching staff.

Transition to an automated system, streamlining user access and enhancing service delivery takes place. The introduction of OPAC with touch screen functionality further enhances navigation and search capabilities. The library has implemented a patron tracking system to efficiently record user footfall, enhancing the understanding of library usage trends. This technology enables us to gather valuable insights into peak hours and popular library areas, optimizing resource allocation, reflecting the commitment to leverage technology for improved library management and user satisfaction. Recognizing the diverse needs of community, the college implemented inclusive measures. A dedicated reading corner caters to differently-abled students and staff, equipped with internet-enabled high-speed computers, scanners, and printers. Braille books and other accommodations ensure accessibility for all. In-house reprographic services are available, facilitating document reproduction within the library premises which enhances convenience for users requiring copies of materials.

Library Club at Rajdhani College established with the aim of nurturing a vibrant learning environment and fostering a love for reading among students. The club orchestrated a series of engagement activities such as national level quiz competition, google meet webinars, book exhibition and field tours.

Faculty Strength

Professors: 29, Associate Professors: 47, Assistant Professors: 39, Ad-hoc: 28, Guest: 46

Financial Allocation and Utilization

Grants Allocated: Rs. 64,61,29,000/-

Grants Utilized: Rs. 64,61,29,000/-

RAJKUMARI AMRIT KAUR COLLEGE OF NURSING

Brief History of the College

Rajkumari Amrit Kaur College of Nursing is a public funded institute administratively governed by the Ministry of Health and Family Welfare, Government of India.[1] It is a constituent college of University of Delhi.[2] The college ranked second in India for Nursing Education (2016).

Major Activities and Achievements

National Level Biennial Conference was organized by TNAI at Thyagaraj Sports Complex, New Delhi on the theme “Empowering Nursing Students- Prospects and Challenges” on November 28-29, 2023. A skill training on “Basic Life Support” for the group of B.Sc. (Hons) Nursing interns was organized by Students of Masters of Nursing 1st year. Under the National Emergency Life Support program, there were a total of

5 TOTs for Nurses conducted from the Financial year April 2023 – March 2024, and 1 training in the financial year 2024-2025. NELS TOT at Safdarjung Hospital was conducted from January 10 to 12, 2023 in the previous financial year 2022-2023. A total of 177 Nurses, both from clinical and nursing colleges have been trained as Master Trainers under the NELS program.

Publications

Scopus Indexed Journals

Kumar, V., Dey, M., Sivakami, R., (2023). A Study to Assess the Risk Factors of Stroke and to Evaluate the Effectiveness of Planned Health Education Programme in Terms of Knowledge and Practice on Prevention and Management of the Risk Factors of Stroke among Adult Population in Selected Rural Community of New Delhi. *International Journal of All Research Education and Scientific Methods*, 11(9), 348-356

Shokandha S., Joy, S.M. & Milton, A., (2024). A Survey to Assess the Opinion of Nursing Officers Regarding the Presence of Birth Companion During Labour and Childbirth in Selected Hospitals of New Delhi. *International Journal of All Research Education and Scientific Methods*, 12(3), 623-630.

Research Projects

A study to assess the risk factors of knee pain and evaluate the effectiveness of isometric exercises on knee pain and functional mobility among elderly people with knee pain in a selected old age home at district Chhatarpur, Madhya Pradesh.

A study to assess the nutritional status and the factors affecting nutritional status of under five children attending selected Anganwadi Centres in New Delhi.

A study to assess the level of stress and coping patterns adopted by parents of children with congenital heart disease and to evaluate the effectiveness of a planned teaching programme on care of children with congenital heart disease in terms of knowledge in a selected hospital of Palwal, Haryana.

A study to assess psychological burden and quality of life of parents of children with intellectual disability with a view to develop an information booklet on management of children with intellectual disability in a selected organization of Gurugram, Haryana.

A study to identify the psychosocial problems of nursing officers with locomotor disability registered with D.E.W Association with a view to evaluate the effectiveness of an information booklet on coping strategies in terms of knowledge in D. E.W Association of New Delhi.

Conferences Organized

A conference on 'Emergency care: up skilling makes the difference from January 31, 2023-February 3, 2023.

A conference on 'Critical care beyond basis: Nurse practitioner in forefront' from February 6-10, 2023.

A conference with NELS Training Institute of Medical Sciences, BHU; SMS Medical College, Jaipur; Sanjay Gandhi Institute of Trauma and Orthopedics, Bangalore; Mahatma Gandhi Institute Of Medical Sciences, Wardha in collaboration with Ministry of Health and Family Welfare, Govt. of India on October 11, 2023.

Seminar/Conference Presentations (National / International)

National

Daisy Thomas, Ms. Sarita Shokandha, Ms. Sarita Shokandha and Ms. Mitali Dey were invited as resource person in scientific oral paper presentation in National workshop on “Emergency care: Upskilling makes the difference” and National Workshop on “Critical care beyond basis: Nurse practitioner in forefront” from February 6-10, 2023.

Jasvir Dalal delivered a paper presentation in workshops/seminars in National Conference on Functional Materials & Sensors organized by the Department of Physics, Maharshi Dayanand University, Rohtak, India, February 16-17, 2024.

S. Geetha Rajkumar was invited as a facilitator in field testing of Essential Newborn Care Course by WHO.

National/International MoUs Signed

A MoU with ECHO India & R.A.K College of Nursing, New Delhi to enhance nurse’s expertise in Cervical Cancer Prevention, Early Detection & Spreading the Awareness on February 5, 2024.

Placement Details

100 percent of students placed in government and private sector, major company being Apollo Spectra, Saket, New Delhi.

Extension and Outreach Activities

The Rural Teaching Centre was established in 1950 for the purpose of providing objective oriented rural community health experience to the students, covering a population of Approx. 23,000 and situating 35 kms away from the college.

The center provides an integrated comprehensive health and family welfare service to the community. Special emphasis is given on MCH services, family planning, immunization, family welfare services, nutrition, adolescent girl’s health and health education programme by the students and staff of rural units in collaboration with the staff of RHTC, Najafgarh. Staff and students also participated in National Health Programmes like Malaria control programme, Dengue control programme, Revised National Tuberculosis control programme; AIDS control programme, Diarrheal Disease control and Intensified Pulse Polio programme etc. The centre also has DOTS and Microscopic Centre for screening and treatment of T.B. & MDR patients.

A community identification and Health survey were conducted at Somesh Vihar, Chhawla covering 100 families from October 2023 to November 2023.

A health camp conducted on March 5, 2024 themed "Women's Health: A Journey Towards Prosperity and Well-being", with an aim to address various women's health issues and promote overall well being.

College participated in various Programme like Vigilance Awareness Week, Anemia Testing Camp, 26th Hepatis Programme, Blood Donation Camp, World Kidney Day, Health Mela etc.

Library Development

The College Library holds around 22,027 Books which includes 16 foreign Journals, 9 Indian journals, 6 newspapers and 7 magazines. The total expenditure on books and journals during the period was Rs. 25,280.

Faculty Strength

Associate Professors: 3, Assistant Professors: 1

Financial Allocation and Utilization

Grants Allocated: Rs. 34,33,00,000/-

Grants Utilized: Rs. Rs.38,48,37,200/-

RAMANUJAN COLLEGE

Major Activities and Achievements

Ramanujan college has been accredited with A++ Grade (CGPA 3.71) by NAAC in its second cycle. The College has pioneered blended teaching-learning with an efficient in-house Learning Management System (LMS) hosted on the Cloud Infrastructure installed within the college premises. A total of 143 programmes (FDP/FIP/RC/Workshops/Conferences) have been conducted by Teaching Learning Centre (TLC), Ramanujan College under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), from April 2023 to March 2024 and trained 41315 participants PAN India. The college set up an Indian Knowledge System Centre: Bharatam - Bhartiya Gyan Parampara Adhyayan, Adhyapan Evam Anusandhan Kendra with the aim to revive the study of the diverse, ancient and rich treasure of Indian knowledge systems and traditions. The Centre, in association with the Teaching Learning Centre, Ramanujan College, organised a 20-day Refresher Course on "SHRIMAD BHAGVAD-GITA Prabodha Evam Prasangikta" under PMMMNMTT scheme from 22 December, 2023 to 10 January, 2024. A 3-day Ramanujan Lit Fest (RLF) around the theme "Sabke Ram, Sab Mein Ram: A Confluence of Literature, Culture, and Philosophy" took place on 14, 15 & 16 February, 2024. The festival facilitated academic and literary discussions around the life of Lord Rama, emphasizing its profound impact on Indian cultural traditions and its global significance. College has also recruited 82 assistant professors during April 2023 to March 2024.

Honours/Distinctions

Faculty

Dr. Divya Bhanot received a grant of 1000\$ by the International Association of Cross-Cultural Psychology, to develop a certificate course on Cross-cultural Psychology in September, 2023 under the SPARK Grant Scheme of International association of Cross-Cultural Psychology.

Ms. Isha Gupta was awarded a prestigious Research Grant from STEG Research Program, CEPR (Centre for Economic Policy Research), Europe with acceptance rate of 2%. She received research Travel Grant, Ahmedabad University Conference Committee, January 2024 and TIES (The Indian Econometric Society) 58th Conference Committee (Tripura University), February 2024. Her media writing on 'India's Lopsided Post-COVID Economic Recovery' was published 'The Diplomat' (Washington DC) Magazine, September 9, 2023.

Publications

Scopus Indexed Journals

Gupta, I. (2024). India's services-driven growth excludes women. *Science*, 383(6683), 598-599.

Gupta, I. (2023). A preliminary review of India's rural economic crisis: stagnant wages, piling debt and waning demand. *Contemporary South Asia*, 31(4), 633-644.

UGC Care List Journals

Jingar, P., Yadav, N.K. (2023). Leveraging Artificial Intelligence to boost brand awareness & Customer Satisfaction on Social Commerce Platforms. *Journal of the Asiatic Society of Mumbai*, 96(17), 28-37.

Singh, M.J. (2023). Phytoconstituents from the Roots and Rhizomes of *Gentiana Kurroo* and their Antioxidant Potentia. *Journal of the Asiatic Society of Mumbai*, 3(97), 105-111.

Web of science

Kumar, D., Kumar, V., & Das, L. (2023). Hermitian-Toeplitz determinants and some coefficient functionals for the starlike functions. *Applications of Mathematics*, 68(3), 289-304.

Shukla, A., & Bora, M. (2024). Pritchard on Veritism and Trivial Truths. *Journal of Indian Council of Philosophical Research*, 41(2), 273-295.

Yadav, S., Moyon, K. V., & Bhanot, D. (2023). Appearance Teasing and Identity Formation Amongst Young Adults: An Interpretative Phenomenological Analysis. *The Qualitative Report*, 28(12), 3647-3676.

Yadav, A., & Iqbal, B. A. (2024). Global value chains in the era of changing globalisation scenario: perspective from BRICS. *International Journal of Innovation and Sustainable Development*, 18(1-2), 14-29.

Iqbal, B. A., Yadav, A., & Rahman, M. N. (2023). Trade Relations among the BRICS Countries: An Indian Perspective. *China and WTO Review*, 9(2).

Neha, N., Tandon, A., Kaur, G., & Aggarwal, A. G. (2024). Synergic impact of development cost and slippage cost on software delivery time. *International Journal of System Assurance Engineering and Management*, 15(2), 745-757.

Soni, S., Shukla, A. K., & Kumar, K. (2023). Estimation and prediction in generalized half logistic lifetime model using hybrid censored data. *International Journal of Quality & Reliability Management*, 40(9), 2041-2063.

Saini, S., Tomer, S., & Garg, R. (2023). Inference of multicomponent stress-strength reliability following Topp-Leone distribution using progressively censored data. *Journal of Applied Statistics*, 50(7), 1538-1567.

Alharbi, R., Garg, R., Kumar, I., Kumari, A., & Aldallal, R. (2023). On estimation of $P(Y < X)$ for inverse Pareto distribution based on progressively first failure censored data. *Plos one*, 18(11), e0287473.

Srivastava, M. P., & Maurya, M. (2023). Analyzing The Influence Of Price Value As A Moderator In The Relationship Between Hedonic Motivation And Purchase Intentions For Online Beauty Products. *Journal of Research Administration*, 5(2), 8852-8876.

Journals

Prof. (Dr.) S. P. Aggarwal: (2023). INTERNATIONAL JOURNAL OF APPLIED ETHICS . Centre for Ethics and Values, Ramanujan College, University of Delhi, India, 9(1), 1-46

Prof. (Dr.) S. P. Aggarwal (India) & Prof. (Dr.) Deepak Khazanchi (International) .(2023). Ramanujan International Journal of Business and Research (RIJBR) . Ramanujan College, University of Delhi, Delhi, India, 8 (1), 1-91

Research Projects

STEG (CEPR) , Ms. Isha Gupta , Idea for Transformation (I4T) Project titled ‘The Rise of Business Services and Structural Transformation in India, Kenya and South Africa: Role of Female Labour Supply’, ₹ 1.06 lakhs

Teaching Learning Centre (TLC Ramanujan College), Dr. Ashish kr. Shukla and Dr. Sachin Tomar, Learning Analytics in Higher Education: With special reference to National Programme on Technology Enhanced Learning (NPTEL)”, 3 lakhs

Indian Council of Social Science Research, Neha Singh, Understanding the Discourse of Caste and Race in Contemporary Time, ₹ 11 lakhs

Social Studies Foundation, (Pune), Neha Singh , Understanding the Discourse of Caste and Race in Contemporary Time, ₹ 10 lakhs

Patents Filed/Granted

Two National patents

Vipin Kumar Rathi, Vinay Chaudhary. Blockchain Defined Multi-domain Orchestrator. Patent No. 525768. Granted for 20 years w.e.f October 17, 2018

Vipin Kumar Rathi, Rahul Prasad, Dinkar Jain, Dr Bhawana. Hybrid Post-Quantum Encryption (PQE) on Private/Public Permissioned blockchain Wallets on Decentralised Identity (DID) ecosystem. Patent no: 470072. Granted for 20 years w.e.f. March 25, 2023

Seminars Organized

“Culture for development - Viksit Bharat”, February 23, 2024

“ Indian Knowledge Tradition: Contemporary Context”, March 02, 2024

Workshop on Building the teacher-student relationship and Understanding Youth mental Health”, January 19, 2024

Three days comprehensive Workshop titled “Limitless Growth- A Step towards Gender Equality” including International Speakers, September 23, 2023

Workshop on “Intelligence Building Programme”, August 22, 2023

“The Relevance of Bharatiya Gyan Parampara in Management”, August 11, 2023

Conferences Organized

Cultures in Transformation: A Subcontinental Experience, 01 March 2024, NRC, ICSSR, Government of India

National (North Zone) Symposium on the Role of Probiotics in Neonatal and Child Health, 12 April 2023, Probiotics Association of India and Ram Lal Anand College, University of Delhi

Seminar/Conference Presentations (National / International)

Isha Gupta on "Recent Developments in Economics Research: Theory & Evidence", Centre for International Trade and Development, JNU, New Delhi on March 7-8, 2024.

Isha Gupta on "Land Allocation Issues in a Developing Economy", Annual Meeting, ICAPE Conference, Association for Evolutionary Economics, San Antonio, Texas on January 12, 2024.

Isha Gupta on "Land Allocation and Structural Change in a Developing Economy: Evidence from India", 4th Pluralism Meeting, University of Bamberg, Germany on October 2-3, 2023.

Neha, Tandon A., Kaur G.; & Kapur P.K. (2023) Presented a paper Modelling Software Reliability Growth incorporating Testing Coverage Function and Fault Reduction Factor at 2nd International Conference on Recent Trends in Engineering, Technology and Business Management (ICRTETBM 2023) (Sustainability, Digitization and Business Operations) held on February 22, 2023, Amity University, Noida, India.

Pappu presented a paper entitled "Eventual Positivity, Perturbations and the Delay Semigroups" in the International Conference on Mathematics and Applications, ICMA-2024, organized by Department of Mathematics, Mata Sundri College for Women (University of Delhi), during January 10-12, 2024.

Pappu presented a paper entitled "Eventual Positivity of Delay Semigroups" in the International Conference on Spectral and Approximation Theory, ICSAT-2023, organized by Department of Mathematics, Cochin University of Science and Technology, Kochi, Kerala, during November 27-30, 2023.

Pranita Srivastava presented a paper on Examining how environmental consciousness and perceived value influence technology adoption for sustainable consumption of online beauty products, Confab 360, Virtual Mode, December 8-9, 2023.

Renu Garg attended and presented a paper titled, "Reliability Estimation in Lindley Distribution using Progressively First Failure Censored Data" at the National Conference on Recent Advances in Data Science during December 15-17, 2023 at the VIT-AP University, Andhra Pradesh, India.

Renu Garg presented a paper, "Estimation in Inverse Pareto Distribution under Unified Hybrid Censoring". International Conference on "Statistics and optimization" organized by the Department of Statistics and Operational Research, Aligarh Muslim University, Aligarh during 28-29, October 2023.

Vivek Shukla, "Philosophical interpretation of Vivekananda's practical Vedanta in the present scenario Organization" Central Hindi Directorate – Government of India Place- Ramanujan College, Date/duration- presented a paper entitled on March 1, 2024.

National/International MoUs Signed

The Next Generation Research and Innovation Centre of the Dept of Computer Science signed an MOU on November 29, 23 with Broadband Multimedia Wireless Laboratory, Dept of Electronic and Computer Engineering, College of Electrical and Computer Engineering, National Taiwan University of Science & Technology, Taipei, Taiwan to collaborate in knowledge-sharing and research and development.

Other Inter-Institutional Collaboration

The college has signed more than 40 National MoUs with colleges/universities for conducting collaborative Faculty Enrichment Programmes namely Dr. C. V. Raman University, Chhattisgarh"; Agrawal PG College Aff. To University Of Rajasthan Managed By Shri Agrawal Shiksha Samiti; Army Institute Of Education, Greater Noida, Uttar Pradesh; Barama College, Barama, Assam; Bareilly College, Bareilly, Uttar Pradesh; Bhaskaracharya College Of Applied Sciences, University Of Delhi; Changu Kana Thakur Arts, Commerce And Science College , New Panvel (Autonomous); Dav College, Hoshiarpur; DAV College, Jalandhar; Deshbandhu College; Deva Matha College, Kuravilangad; Dhote Bandhu Science College , Gondia, Maharashtra; Dolphin (PG) Institute Of Bio Medical & Natural Sciences, Dehradun, Uttarakhand; ESG Research Foundation; GB Pant Memorial Govt. Degree College Affiliated To Himachal Pradesh University Rampur Bushahr, Shimla; Gokul Das Hindu Girls College , (Affiliated To Mjp Rohilkhand University), Moradabad; Govt. E Raghavendra Rao Postgraduate Science College , Bilaspu; Harmal Panchakroshi Shikshan Mandal's Ganpat Parsekar College Education Vidya Sankul, Bhom Plateau, Harmal-Goa; Hindu College(M. J. P. Rohilkhand University, Bareilly) , Moradabad; Indian Accounting Association , NCR Chapter; Janata College Of Serfanguri, Assam; Jss Mahavidyapeetha Jss Science And Technology University; Jss Technical Institutions Campus, Mysuru; K.R. Mangalam University; Kandaswamy Kandar's College ,Velur; KM Mayawati Govt Girls P G College, Badalpur, GB Nagar, Uttar Pradesh; Kongunadu Arts And Science College (Autonomous) , Coimbatore ; M.C.E. Society's A.K.K. New Law Academy , Pune; M.V.S Government Arts & Science College (Autonomous) Mahabubnagar, Telangana; Maharaja Agrasen Institute Of Technology; Maharaja Surajmal Institute , GGS Indraprastha University, Delhi; "Multani Mal Modi College Punjabi University, Patiala"; Nirmala College Muvattupuzha, Kerala; P.E. Society's Modern Law College, Pune, Maharashtra; "Raghunath Girls' Post Graduate College , Chaudhary Charan Singh University, Meerut, Uttar Pradesh"; Ram Lal Anand College , University Of Delhi; Rani Channamma University, PG Centre, Torvi, Vijayapur; SGRR School Of Education , Shri Guru Ram Rai University Shiromani Gurdwara Prabandhak Committee's; Guru Nanak Khalsa College Of Arts, Science & Commerce (Autonomous), Nathalal Parekh Marg, King's Circle, Matunga (East) - Mumbai – 40001; Shri Mathuradas Mohota College Of Science; Sri Guru Gobind Singh College Of Commerce,University Of Delhi; Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib,Punjab; Sri Jayachamarajendra College Of Engineering; Sri Sarada College For Women (Autonomous); SST College Of Arts And Commerce , Ulhasnagar, Maharashtra; Taxo Academy; The Art Of Living Foundation; Valia Chhaganlal Laljibhai College Of Commerce & Lilavantiben Chhaganlal College Of Arts , Mumbai, Maharashtra

Placement Details (Number and percentage of students placed)

363

Placement Number of Companies Visited for Campus recruitment

Total number of companies visited: 302 Nature of company: Consulting, Financial Services, Sales and Marketing, Technology, Travel, Ed-Tech.

Extension and Outreach Activities

Outreach Programme's 2023-2024 activities were marked by impactful community engagement events. On August 13, 2023 volunteers celebrated Pre-Independence Day at Vasant Vihar's Coolie Camp, featuring prayers, plays on "Beti Bachao, Beti Padhao", dances, poems, and the National Anthem. The Blindfold Interaction Event, on August 23, 2023, a collaboration with The School Of Happiness, aimed at reducing social anxiety through non-judgmental interactions. A Gandhi Jayanti Cleanliness Drive was organized on October 1, 2023 at Coolie Camp, with volunteers and children joining forces to emphasize sanitation and honor Mahatma Gandhi's legacy. A visit to Panchwati Old Age Home on November 4, 2023 saw students upcycling old clothes into bags, showcasing creativity while benefiting the elderly. The Prajna Foundation Event on November 23, 2023 at Kalkaji, organized by Jazba - The Theatre Society and National Outreach Programme, was both engaging and impactful. Republic Day celebrations on January 25, 2024, at Coolie Camp featured musical performances, dances, poetry, and an awareness play on "Cyber bullying". A Donation Drive from February 19-24 raised 10,000 INR and collected essential items for Prajna Foundation and Khushi Rainbow Home NGO. The society collaborated with Raahat for a Workshop on Psychological First Aid on March 18, 2024 at the Ghalib Auditorium. Concluding the activities, Parivartan - Change Through the Lens, an Intercollege Short Film Competition on "Masked Realities", was held on March 18 and 19, 2024, awarding top films for their contributions. English (Hons.) students organised an Outreach Programme with the children of the construction workers and celebrated the festival of colours and light. They collected clothes, food items and toys from the department and distributed it among those kids. A heritage walk to Shahjahanabad city was organised on 5th December 2023, under the guidance of Dr. Archana Ojha, Associate Professor, Department of History, Kamla Nehru College, University of Delhi. Women Development cell organised Self Defence Workshop in Collaboration with NSS and Delhi Police on 6th and 7th March. Students of BMS made a visit to ROJAVANAM old age home on 12th March, 2024.

Library Development

The college library has purchased 894 print books in the financial year 2023-2024. Library also provides access to e-resources through Delhi University library system, N-list and DELNET and offers inter-library loan facility to its users through DELNET. The library webpage and webopac are more customized, where users may find all the relevant information about the library and its activities. Recent publications of the faculty can also be viewed on WEBOPAC. Dspace is the institutional repository of our College Library, where you may access DU and higher education related news clippings, faculty publications, reports of library activities and Ramanujan College Journals content pages. The library has installed RFID readers to measure the footfall of the users. The IQAC and library organized a two-day workshop on MARC 21 (Machine-Readable Cataloging) and RDA (Resource Description and Access) on January 29-30, 2024 for the library staff. Some new collections have also been made in the library, like biographies, autobiographies, special collections on women and Booker prize winner books.

Faculty Strength

Total: 128 (One hundred and twenty eighteen) - (Professor – 05, Associate Professor – 14, Assistant Professor – 105, Ad-hoc- 5, Guest- 4)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 41.9 Cr.

Grant Utilized: ₹ 41.7 Cr.

RAMJAS COLLEGE

Major Activities and Achievements

During the academic year 2023-24, Environment and Energy Audit of the college was done by EHS Alliance Services and certified our college campus as Environment friendly. Sewage disposal method and Rainwater harvesting has been revamped in college. Also, two wet waste fermenters have been installed in the college. NAAC Cycle I peer team visit has been scheduled on 2nd and 3rd May 2024. Ramjas College Chess team secured first position in 'Erobern 24' at Miranda House.

Honours/Distinctions

Faculty

Prof. Hardeep Kaur was conferred with citation of Outstanding Research and Academic contribution in the field of Molecular/Fungal Biology and she received Congress of Zoology Medal by Zoological Survey of India on June 05, 2023 at Srinagar, Kashmir.

Dr. Sharf Illahi Siddiqui was listed among the top 2% scientists in the world by Stanford University. He obtained International award for best lecture delivered at Kyung Hee University, South Korea.

Student

Saurabh Kumar, pursuing BSc (H) Chemistry VI semester, secured the top rank of AIR 1 in the IIT JAM examination. Zargham Khan won the first prize in Classical instrumental solo in the Nationals at Inter University Youth Festival 'Rang- Tarang 2024'. Heeral Sadhu, B.Com (Hons), represents our country in speed skating. Recently, she represented India in the Asian Games and was fortunate to secure a bronze medal for our country.

Journals

Dr. Sanjay Chaudhary .(2023). Sports Injuries:A Rehabilitation and Prevention. The Yogicjournal , Vol. 8(2)(2023), 493-94

Publications

Scopus Indexed Journals

Sood, U., Müller, M., Lan, T., Garg, G., Singhvi, N., Hira, P., ... & Lal, R. (2024). Amycolatopsis mediterranei: A Sixty-Year Journey from Strain Isolation to Unlocking Its Potential of Rifamycin Analogue Production by Combinatorial Biosynthesis. Journal of Natural Products, 87(2), 424-438.

Wadhwa, K., Kaur, H., Kapoor, N., Ghorai, S. M., Gupta, R., & Sahgal, A. (2023). A systematic review on antimicrobial activities of green synthesized Selaginella silver nanoparticles. Expert Reviews in Molecular Medicine, 1-14.

Dang, S., Jain, A., Dhanda, G., Bhattacharya, N., Bhattacharya, A., & Senapati, S. (2024). One carbon metabolism and its implication in health and immune functions. *Cell Biochemistry and Function*, 42(1), e3926.

Yadav, H., Bhardwaj, R., Bakshi, A., Gupta, S., & Maurya, S. K. (2023). Unveiling the role of gut-brain axis in regulating neurodegenerative diseases: A comprehensive review. *Life Sciences*, 122022.

Sood, U., Pandey, J., Patel, S. K. S., & Verma, H. (2023). Omics techniques in deciphering environmental, industrial and therapeutic applications of microbes. *Frontiers in Microbiology*, 14, 1327368.

UGC Care List Journals

Verma, V., Puttar, D., Garg, V., & Moudgil, R. K. (2023). Exchange and correlation effects on spin Coulomb drag in a spin-polarized quasi-one-dimensional electron gas. *Modern Physics Letters B*, 37(24), 2350085.

Kumar, N., Shivankar, S., Jha, A. K. S., Dimri, M., Dawra, D., & Mohan, M. (2023). Relativistic atomic structure calculations, plasma and thermodynamic parameters for Ca X. *The European Physical Journal Plus*, 138(12), 1155.

Kumar, K., & Upadhyay, T. C. (2024). Thermal-Dependent Ferroelectric Cochran's Frequency and Dielectric Properties in Arsenate-Type Family of KDP Crystal. *Journal of Low Temperature Physics*, 214(5), 360-384.

Chahal, K., Kumar, S., Budhwar, S., Dalal, R., Panghal, A., & Kataria, N. (2023). Assessment of radiological risks and chemical toxicity due to exposure of uranium in water samples of district Mahendergarh Haryana, India.

Chaurasia, R., & Pramanik, A. K. (2023). Current–voltage characteristics in single layer SrIrO₃ films deposited on LaAlO₃ (100) substrate. *Journal of Physics: Condensed Matter*, 36(12), 125602.

Arora, S., Singh, H. P., Sahota, L., Arora, M. K., Singh, S., Arya, R., & Prashar, A. (2024). Energy matrices, enviro-economic and characteristic equation-based performance analyses of photovoltaic thermal compound parabolic concentrator (PVT-CPC) coupled solar still equipped with heat exchanger using SWCNTs and MWCNTs–water nanofluids. *International Journal of Ambient Energy*, 45(1), 2308039.

Kumar Koul, K., & Nagpal, R. (2023). Female meiosis in plants, and differential recombination in the two sexes: a perspective. *The Nucleus*, 66(2), 195-203.

Research Projects

Indian Council of Social Science Research, Dr. Swadesh Singh, Media and Marginalised: A Study of Internet ERA for Marginalised Section, 5.0 lacs

Indian Council of Social Science Research, Dr. Swadesh Singh, Changind Trends in Political Parties and party System in India, 2.5 lacs

Indian Council of Social Science Research, Dr. Swadesh Singh, Am Empirical Analysis of Saving and Investment Pattern of Household residing in the National Capital Region, 4.0 lacs

Patents Filed/Granted

1 and UK Patent [Design] on Intelligent device for vehicle speed monitoring; No 6314882; Issued by Intellectual Property Office (UK)

Seminars Organized

Shri Sajjan Singh, Additional Secretary, Government of India (Finance Ministry), Under Viksit Bharat Abhiyan, “Vaccination” on October 18, 2023

M. Jagadesh Kumar, Chairman, UGC, Under Viksit Bharat Abhiyan, “New Policy : Novel Thinking” , February 15, 2024

Dr. Padma Bandopadhyay, Retired, Padma Shri, first Air Marshal of Indian Air Force’, Department of Botany and Gender Sensitization committee, “Women Empowerment: Myth or Real”, on February 20, 2024

Prof. Radhey Shyam Sharma, Professor, Department of Environmental Studies, Department of Chemistry, “Crafting your lifebook and nurturing Viksit Bharat within an Environmental framework”, February 28, 2024

Seminar/Conference Presentations (National / International)

Anwar Jahan, presented a paper in International e-Conference entitled “Chemical and Biological Sciences” held at the Department of Chemistry, Atma Ram Sanatan Dharma (ARS) College, University of Delhi, Delhi (India) on January 27-29, 2024

Monika Saxena, paper presentation on “Temples as Institutions of cultural and social history” in National Seminar held at Mahila PG Mahavidyalaya, Jodhpur on July 25-26, 2023

Madhu Bala Raigar presented a paper on “Synthesis, Characterization and applications of novel Tamarind based chelating ion exchanger resin for removal and recovery of toxic metal ions from industrial effluent” in International Conferences on Chemical and Biological Sciences (ICCBS-2024), Atma Ram Sanatan Dharma College, University of Delhi on January 27-29, 2024

Ojit Kumar Singh Mayanglambam, presented paper entitled ‘Entomophagy: Examining the Viable Option for Sustainability” in National seminar on Anthropology of Development and Sustainability held at Department of Anthropology, University of Hyderabad on February 09-10, 2024

Neeti Mehala presented a paper presentation on :Medicinal Plants: Exploring new frontiers in Environmental sustainability and healthcare innovations” in the National Conference held at Department of Botany, University of Rajasthan by, Department of Botany on March 14-15, 2024

Ojit Kumar Singh Mayanglambam delivered a talk on "Animal Behaviour: Unveiling the Mysteries of the Wilderness’ entitled ‘Visiting the Visuals: Visual Communication in Animals in Capacity building workshop and lecture series organized by department of Zoology, Miranda House, DU on February 28, 2024

Suresh Kumar delivered a talk on “Crossroads of chemistry, Biology and Atmospheric Environment: A modern Perspective” at International Conference organized by Department of Chemistry, University of Delhi on February 26-28, 2024

Saloni Bhardwaj presented a paper in 67th DAE Solid State Physics Symposium, Organised by Bhabha Atomic Research Centre, Mumbai, Sponsored by: Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy, Government of India on December 20-24, 2023

Shobhna Chaudhry presented a paper on “Science and Technology for Sustainable Future” in 1st International Conference organized by Sardar Patel University Mandi, Himachal Pradesh, India on November 20-25, 2023

National/International MoUs Signed

Memorandum of Understanding (MoU) with Oil and Natural Gas Corporation limited signed on January 31, 2024; with School of Open Learning, University of Delhi on January 25, 2024; with Samarth Bharat Bhaorao Deoras Sewa Nyas, Lucknow on January 20, 2024; with Japan Airlines Co. Ltd (JAL), World mark 1, Aerocity, New Delhi on October 16, 2023 and Sanskrit Bharti, Mandi House, New Delhi on July 03, 2023

Other Inter-Institutional Collaboration

Ramjas College, University of Delhi with WNS Cares Foundation, Pirojshanagar, Mumbai on October 01, 2023; with IIT, Guwahati on July 06, 2023; with Delhi Institute of Advanced Studies (DIAS), with students and faculty from Commerce Department on June 28, 2023 and with Society for Applied Value Education (SAVE) on June 27, 2023

Placement Details (Number and percentage of students placed)

109

Placement Number of Companies Visited for Campus recruitment

75

Extension and Outreach Activities

Enactus Ramjas represented the college at a National level, where the team received an award for the title of the team promising sustainability in The Enactus National Exposition 23 held at IIT Delhi on July 09-10, 2023. Mr. Kabir Sikri has received the award for the best ‘Enactus Alumni’. Under NSS, a practical training of CPR and First Aid Training in collaboration with Tech Mahindra Smart Academy for Healthcare was provided to more than 100 students of Ramjas college to cope up with emergency situations on April 19, 2023. Cloth donation drive, Plantation drive, Free Dental check up, Blood Donation drive,, Cancer Awareness Program, Menstrual Awareness Camp were organized throughout the year. Yoga session was conducted in collaboration with Bhartiya Yog Sanstha under NSS program. NSS unit conducted Literacy drive in collaboration with Pehchan NGO on June 17, 2023 where 50 students of diverse ages were taught various subjects and drawing in slum areas. The Yamuna Cleanliness Drive was also conducted by the NSS unit in collaboration with Sant Nirankari Charitable Foundation. Cleanliness drive in collaboration with Japan Airlines Limited under Swachhata hi Sewa alongwith Meerabai Park cleanliness drive was conducted in September 2023. Kalash Yatra under Meri Mitti Mera Desh Campaign was conducted where on behalf of Ramjas college NSS volunteers took soil from Ramjas college for joining the Kalash Yatra of the university. Fit India Swachhata Freedom Run 4.O, a marathon was organised from Ramjas college to

Vishwavidyalaya metro station to Khalsa college and finishing at Ramjas college covering a distance of 3.4 kms. ‘NSS Ramjasotsav 2.O’, the Diwali fest was organized by NSS Ramjas that provided a platform for the students of the enabling unit to perform and showcase their talents. A Seminar On Viksit Bharat, Swarnim Bharat Aur Sahitya in collaboration with Viksit Bharat Unit was organised in March 2024, which was attended by more than 80 college students and esteemed Chief Guest, Prof. Jaspali Chauhan, delivered a speech on "Viksit Bharat," emphasizing the pivotal role of students and youth in transforming India into a developed nation. Team of Ramjas Dance Society Led by Joel P. Mathew won around 28 competitions all over Delhi NCR. College Debating society, Deb Soc has won various prizes such as in the KK Birla Memorial Hindi debate, our students, Bhawna Sati and Dewashish Kashyap bagged first prize held at Hindu College, best Speaker at Conventional Debate organized by Hindi Academy, Laxmibai College, First Prize in Conventional Debate organized by PGDAV (M), winner of Nandita Rajguru Memorial Debate, JDMC, winner of Picture Extempore organized by NDL etc. Under Unnat Bharat Abhiyan, visit to Jharoda Majra, Burari and Kamalpur villages was organized on Republic Day where community program was organized by the villagers of the villages adopted by Ramjas College under UBA and the people were informed about the work done by UBA team in their village and future plan. ‘Free eye checkup camp’, under collaboration of Centre for Sight was organized at Jharoda Majra, one of the adopted villages under the scheme in March 2024. Approx 100 people belonging to different age groups were benefited by the Eye Care camp. Various programs were held under NCC throughout the year such as at the closing ceremony of Azadi ka Amrit Mahotsav on August 22, 2023, under G20 summit 2023. E- Quiz was organized by the NCC senior wing of Ramjas College at the G-20 summit ‘One Earth, One Family, One Future’ ‘KNOW YOUR G20’. Workshop on leadership skills and career prospects in Indian Armed Forces was also organized on 1st March, 2024.

Library Development

ONGC under the CSR grant of the organization has provided funds for the renovation of the library and an eight months project has commenced in March 2024.

The library timings have been extended and is now open from 8am to 8pm from June 12, 2023 from Monday to Friday. The library has trained 49 students pursuing BLIS and MLIS from SOL, University of Delhi and IGNOU. A lecture in Hindi on the topic “How to build a strong personality?” was organized for the student users of the library. In the library, an orientation programme was conducted especially for the Pwd students in coordination with the Enabling Unit of the college.

Faculty Strength

Total: 133 (One hundred and thirty three) - (Professor – 34, Associate Professor – 24, Assistant Professor – 152, Ad-hoc-2 Guest- 21)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 103.7 Cr.

Grant Utilized: ₹ 97.2 Cr.

RAM LAL ANAND COLLEGE

Major Activities and Achievements

We are proud to announce progress in harnessing solar energy, with 130 KV solar panels now linked to the main grid, moving us towards a goal of zero electricity bills. To enhance operational efficiency, we invested in a comprehensive ERP system with an app, covering modules such as timetable management, attendance tracking, internal assessments, notifications, placement and internship coordination, society activity management, and faculty and student profiles. College has applied for NIRF ranking framework.

Honours/Distinctions

Faculty

Prof. Rakesh Kumar was awarded the Sahitya Ratna by the BPA Foundation on 09 March 2024

Dr. Deepti Gupta was adjudged Best Paper Presenter at the School of Vocational Studies, Dr. B. R. Ambedkar University, New Delhi on March 27, 2024

Dr. Anubha was adjudged Best Paper Presenter at Dept of Commerce, Delhi School of Economics, University of Delhi on March 15, 2024

Prof. Neeraj K Sharma was appointed as Expert for CAS Cases Promotion Committee for DAV Colleges in Punjab by DAV Management Committee on December 12, 2023

Students

Ms. Priyanshi Pandey, B.Sc Hons Geology, 2020-23 batch, Gold Medal for securing First Position at University of Delhi

Mr. Aditya Yadav, BA Hons Political Science, 2020-23 batch, Pt. Deendayal Upadhyaya Gold Medal for securing highest marks in University of Delhi

Mr. Rishabh Ahuja, B. Com (H) 2021-24, secured funding at Shark Tank India Season 3 for his startup "MePack"

Ms. Shruti Grover, B.A. (H) Political Science, 2021-24 batch, has secured third position in Judo at Khelo India Tournament organised by Ministry of Youth Affairs and Sports held at Lucknow from 25 June-03 July, 2023

Mr. Matlum, B.A. (H) Hindi, 2023-27, secured Second Position in Kho-Kho at Khelo India Tournament organised by Ministry of Youth Affairs and Sports held at SDT Complex, Madurai, Tamilnadu

Publications

Scopus Indexed Journals

Bhatt, S., Singh, S., & Singh, S. (2023). Approximate Solution of Fourth Order Parabolic Equation using Splines. Palestine Journal of Mathematics, 12.

Bhardwaj, H., & Adlakha, N. (2023). Radial Basis Function-Based Differential Quadrature Approach to Study Reaction–Diffusion of Ca^{2+} in T Lymphocyte. International Journal of Computational Methods, 20(04), 2250059.

- Kulkarni, A.C., Sharma, A. (2023). Role of lung ultrasonography for diagnosing atelectasis in robotic pelvic surgeries. *Indian Journal of Clinical Anaesthesia*, 10(3), 269-275.
- Bhardwaj, H., & Adlakha, N. (2024). Model to study interdependent calcium and IP₃ distribution regulating NFAT production in T lymphocyte. *Journal of Mechanics in Medicine and Biology*, 24(03), 2350055.
- Bhardwaj, H., & Adlakha, N. (2024). Fractional order reaction diffusion of calcium regulating NFAT production in T Lymphocyte. *International Journal of Biomathematics*, 17(06), 2350054.
- Chauhan, K. S., & Sharma, A. (2024). SEQUENTIAL TESTING PROCEDURE FOR THE PARAMETERS OF INVERSE DISTRIBUTION FAMILY. *Reliability: Theory & Applications*, 19(1 (77)), 819-831.
- Pant, R. R., Bishwakarma, K., Kandel, K., Poudel, S., Nepal, J., Neupane, B. B., & Singh, V. B. (2023). Seasonal variations and health risk assessment of trace elements in the Badigad River, lesser Himalayas, Nepal. *Acta Geochimica*, 42(4), 689-703.
- Mukherjee, P., Sharma, R. S., Rawat, D., Sharma, U., Karmakar, S., Yadav, A., & Mishra, V. (2024). Microbial communities drive flux of acid orange 7 and crystal violet dyes in water-sediment system. *Journal of Environmental Management*, 351, 119699.
- Kumari, R., Suman, K., Karmakar, S., Mishra, V., Lakra, S. G., Saurav, G. K., & Mahto, B. K. (2023). Regulation and safety measures for nanotechnology-based agri-products. *Frontiers in Genome Editing*, 5, 1200987.
- Jain, R., Das, M. D., Sharma, M. S., Mohapatra, M. S., & Baxodirovna, M. R. K. (2023). Prospecting Risk factors for Anxiety and Depression among University Students: A Delhi based Cross-Sectional Study. *Journal of Positive Psychology and Wellbeing*, 7(2), 1055-1066.
- Jain, R., Rao, M., Jindal, R. (2023). Rural to Urban Migration in India Through SPSS and Bibliometric Analysis. *International Research Journal of Management Sociology & Humanities*, 14(5), 342-355.
- Verma, A., Joshi, G., Shri, C., Chaturvedi, A., & Gupta, S. (2023). Role of fear on consumers' buying tendencies: mediating role of social media usage. *FIIB Business Review*, 23197145231186281.
- Movik, S., Adam, H. N., & Alankar, A. (2023). Claiming space: Contested coastal commons in Mumbai. *Geoforum*, 144, 103805.
- Kumar, D., Kumar, P. (2023). Common Fixed Point Theorems Using Variants of Compatible Mappings in Fuzzy Metric Space. *Tuijin Jishu/Journal of Propulsion Technology*, 44(5), 3237-3245.
- Diwan, P., Nirwan, M., Bahuguna, M., Kumari, S. P., Wahlang, J., & Gupta, R. K. (2023). Evaluating Alterations of the Oral Microbiome and Its Link to Oral Cancer among Betel Quid Chewers: Prospecting Reversal through Probiotic Intervention. *Pathogens*, 12(8), 996.
- Bahuguna, M., Hooda, S., Mohan, L., Gupta, R. K., & Diwan, P. (2023). Identifying oral microbiome alterations in adult betel quid chewing population of Delhi, India. *Plos one*, 18(1), e0278221.
- Narayan, O. P., Yadav, B., Verma, N., Dua, M., & Johri, A. K. (2023). Maize Seedlings Colonization with *Serendipita indica* and Its Colonization Efficiency Analysis. *Bio-protocol*, 13(20).
- Chauhan, K. S., & Sharma, A. (2024). SEQUENTIAL TESTING PROCEDURE FOR THE PARAMETERS OF INVERSE DISTRIBUTION FAMILY. *Reliability: Theory & Applications*, 19(1 (77)), 819-831.

Kumar, V. (2023). Second Urbanisation and the Facets of Socio-economic Change in the Gangetic Valley. *Indian Historical Review*, 50(1), 146-158.

Rajpal, A., Kumar, S., Sharma, N. K., Abraham, A., Mishra, A., & Kumar, N. (2024). CXRmark: A Watermarking Scheme for Chest X-Rays Using Online Sequential Reduced Kernel ELM. *Circuits, Systems, and Signal Processing*, 43(2), 965-993.

Sakshi, Malik, A., & Sharma, A. K. (2024). A survey on blockchain based IoT forensic evidence preservation: research trends and current challenges. *Multimedia Tools and Applications*, 83(14), 42413-42458.

Malik, A., & Sharma, A. K. (2023). Blockchain-based digital chain of custody multimedia evidence preservation framework for internet-of-things. *Journal of Information Security and Applications*, 77, 103579.

Verma, S., Sharan, A., & Malik, N. (2024). Efficient Classification of Hallmark of Cancer Using Embedding-Based Support Vector Machine for Multilabel Text. *New Generation Computing*, 1-30.

Kungumaraj, E., Lathanayagam, E., Saikia, U., Anand, M. C. J., Khanna, S. T., Martin, N., ... & Edalatpanah, S. A. (2023). Neutrosophic topological vector spaces and its properties. *Full Length Article*, 23(2), 63-3.

Khanna, S. T., Khatri, S. K., & Sharma, N. K. (2024). Neutrosophic Meta SHAP and Neutrosophic Meta LIME: An Efficient Framework for Explainable AI in Oral Cancer Detection. *International Journal of Neutrosophic Science*, 23(3), 373-73.

Verma, S., & Sharan, A. (2024). Unveiling the Biomarkers: Identifying Key Signatures for Cancer Hallmarks. *EAI Endorsed Transactions on Pervasive Health and Technology*, 10.

Lal, R., Padhan, T., Jangra, B., Chauhan, P. R., Sahu, S., & Patnaik, R. (2023). New field observations on the Quaternary geology and vertebrate palaeontological occurrences in the Narsinghpur region of Narmada valley (central India).

Singh, P., Mazumder, M. D., & Babu, S. (2023). Mappable Nearly Orthogonal Arrays Using Projective Geometry. *Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, 14(03), 454-464.

UGC Care-list Indexed Journals

Mohan, L., Anand, S., Mittal, M., Goyal, K., Akanksha, Dixit, A., ... & Diwan, P. (2023). Cross-sectional study: knowledge assessment of youth regarding the global public health threat of antibiotic resistance. *Journal of Public Health*, 1-10.

Journals

Prof. Rakesh Kumar .(2023). *Campus Connect*. Ram Lal Anand College , 1(1), 1-4

Prof. Rakesh Kumar .(2023). *Sambhav*. Ram Lal Anand College , 16(2), 1-32

Dr Shruti Anand and Dr Shachi Meena .(2023). *Asmi*. Ram Lal Anand College , 1(4), 1-50

Research Projects

DST, Government of India, Prof. Perna Diwan, Department of Microbiology, Sustainable Livelihood Enhancement of SC Communities in Chainpura Tehsil of Niwai , ₹ 69.75 lakhs

ICMR, Government of India, Prof. Rakesh Kumar Gupta, Department of Microbiology, Resistome metagenomic profiling of bioaerosols in metro network in Delhi- NCR, ₹ 56 lakhs

ICMR, Government of India, Prof. Rakesh Kumar Gupta, Department of Microbiology, Targeting biofilm formation by inhibiting Cysteine biosynthesis pathway enzymes in ESKAPE pathogens with natural products, ₹ 45 lakhs

ICMR, Government of India, Prof. Neeraj Kumar Sharma, Department of Computer Science, Assessment and Monitoring of Depth of Anesthesia using Explainable AI, ₹ 18.5 lakhs

ICSSR, Government of India, Dr. Debashree Das, Department of Economics, Assessment of the Income Tax Declaration Scheme 2016: Experimental Evidence on the Taxpayer Compliance Behaviour, ₹ 4.0 lakhs

Patents Filed/Granted

6349127 US Design Patent and AI-Driven Centrifuge Tubes for Optimized Laboratory Workflows

6345938 UK Design Patent and Smart Biometric device to Record Attendance

Indian Patent Application Filed - 202411010372 and Method For Metagenomic DNA Extraction From Bioaerosols Collected Using Biosampler

Seminars Organized

Ms. Meenakshi Lekhi, Union Minister of State for External Affairs and Culture, Ram Lal Anand College, Cultural policy chaupal: Culture for development - Viksit Bharat, 23 February 2024

Prof. Raj Kumar, Professor, Dept of English, University of Delhi, Ram Lal Anand College, Mulk Raj Anand - Caste and Contemporary Realities, 23 February 2024

Prof. Neel Sarovar Bhavesh, Senior Professor, Group Leader, Transcriptional Regulation, ICGEB, New Delhi, Ram Lal Anand College, Celebrating Developments in Science for Viksit Bharat, 27 February 2024

Prof. Saumen Chattopadhyaya, Professor, Jawahar Lal Nehru University, New Delhi, Ram Lal Anand College, Tax Compliance Behaviour in India, 12 February 2024

Dr. Priyanka Sehrawat, Neurologist, AIIMS, New Delhi, Ram Lal Anand College, General Health and Neurological Issues, 05 July 2023

Conferences Organized

Cultures in Transformation: A Subcontinental Experience, 01 March 2024, NRC, ICSSR, Government of India

National (North Zone) Symposium on the Role of Probiotics in Neonatal and Child Health, 12 April 2023, Probiotics Association of India and Ram Lal Anand College, University of Delhi

Seminar/Conference Presentations (National / International)

National

Bhardwaj H presented a paper entitled Two Dimensional Finite Element Model of Interdependent Ca²⁺ and IP₃ Dynamics in T_H1 lymphocyte, held at ROORKEE, India on August 11-13, 2023.

National/International MoUs Signed

MOU signed with Translational Health Science and Technology Institute (THSTI) on 05 August 2023 for three years

MOU Signed with Indira Gandhi National Open University on 25 September 2023

Ongoing MOU with ICT Academy; Delhi State AIDS Control Society, Govt of NCT of Delhi; Sustainable India Trust, SIT; Ladli Foundation Trust; Teaching-Learning Centre, Ramanujan College under PMMMNMTT (MOE), New Delhi.

Other Inter-Institutional Collaboration

Vigyan Prasar II. Department of East Asian Studies, University of Delhi. III. Teaching Learning Centre (TLC), Ramanujan College (Under PMMMNMTT scheme) IV. Department of Biotechnology, IIIT V. School of Biotechnology, GGSIP University, New Delhi, India VI. Centre for Innovation in Infectious Disease Research, Education and Training, University of Delhi South Campus VII. St Edmunds College Shillong, Meghalaya VIII. ICT ACADEMY IX. Translational Health Science and Technology Institute (THSTI) under Science Setu X. National Institute of Plant Genome Research (NIPGR) Under Science Setu XI. Calyxpod XII. Virtual Labs (IIT Delhi) XIII. School of Computer and System Sciences (SC &SS), JNU XIV. Centre for Community Economics and Developments Consultant Society (CECOEDECON, Jaipur, XV. Delhi School for Skill Enhancement and Entrepreneurship Development (DSSED), University of Delhi, South Campus, XVI. North-East Cancer Hospital and Research Centre (NECHRI), Guwahati XVII. Dept of Sanskrit, University of Delhi

Placement Details (Number and percentage of students placed)

28 out of 75 appearing for placement interviews; 204 students secured internships.

Placement Number of Companies Visited for Campus recruitment

132

Extension and Outreach Activities

The College has adopted Five villages (Pilkha, Kotyura, Patiya, Bhatgaon and Kasoon) falling under Hawalbagh and Takula blocks in Almora District, under the Institution Outreach Initiative (without any financial assistance) as an Extension of NMHS Project. College is supporting their community on Career guidance for school and college students, imparting communication skills, Livelihood opportunities through organizing Geo-excursion and Eco-tourism trips of the students of the Delhi and other universities of India and abroad, protection of geo-heritage surrounding the villages, awareness among villagers on various government schemes/interventions and Information technology support.

SPIC MACAY RLAC chapter “Virasat” was organised and we had eminent personalities like Smt. Ragini Chandershekar, Shri Bhuvanesh Komkali, Pandit Rajendra Prasanna for Concerts, Dr. Swapana Liddle for Heritage walk, Prof. Mateen Ahmad for Cinema Classic, Brahmakumari Rama for Spritual talk, and Shri Purna Chandra Moharana for Pattachitraa, with more than 500 students participation.

Two Days Workshop on IT Literacy was organized at Hope Worldwide India School, Tigri extension, sangam Vihar, and in collaboration with Embetter Technologies. Under the DST-SEED project, the college organized 2 Days training on Soil Testing at NIwai Rajasthan in which More than 90 farmers participated. The students were given exposure through educational field trips to National Science, Nainital, Pattiya villages of Almora, Amrit Udyaan, CSIR Decadal Achievement Exhibition, Global bioIndia, Industrial visits, Field Trainings to AMD Exploration Site, Narnaul and Hindustan Copper, Copper mines benefiting more than 450 students. The college organized certificate hands-on training and workshops like pottery, paintings, sorting of biodegradable waste. Under NSS, NCC and other committees, awareness sessions on literacy, health, hygiene, mental wellness, biological and social aspects of society were conducted which benefited 760 plus students. More than 500 students participated in cleanliness drives, tree plantation, donation, Cloth and Sanitary Pad Donation drive, Stray Animal Feeding drive, Lymphatic Filariasis Awareness drive and material distribution drives, zero waste mission drive under swachchh bharat and ek tareekh ek ghanta national schemes. NSS organised a 7- Day Special Camp in Jaisalmer from 2nd to 9th February 2024 with 40 volunteers.

Library Development

A total of 1121 books (text and reference) were purchased with a total expenditure of 99,19,83/- in the total expenditure of 1243677/- was made on library with 1121 books (text and reference) purchased amounting to 99,19,83/-. N-list membership has been provided to each student to access variety of e-resources. 40 journals and 14 newspapers are regularly subscribed by the library. Book Bank facility has been developed for needy students to provide complete set of books for the core courses.

Faculty Strength

Total: 118 (One hundred eighteen) - (Professor: 17, Associate Professor - 06, Assistant Professor - 84, Guest - 11)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 40.3 Cr.

Grant Utilized: ₹ 39.7 Cr.

SATYAWATI COLLEGE

Publications

Scopus Indexed Journals

Singh, R., Gupta, C. P., & Chaudhary, P. (2023). Dividend policy and corporate life cycle: a study of Indian companies. *Managerial Finance*, 49(11), 1722-1749.

Chetan, A. (2023). *Founding Mothers of the Indian Republic: Gender Politics of the Framing of the Constitution* (Vol. 17). Cambridge University Press.

Kalra, S., Taneja, C., & Singhal, N. (2023). Participation in online health communities: Decoding the antecedents and outcomes. *Asia Pacific Journal of Health Management*, 18(2), 176-186.

Taneja, C., & Kalra, S. (2024). Antecedents of Status Consumption of Fashion Brands—The Impact of Sustainability in the Post-COVID Era. *Indian Journal of Marketing*, 54(3), 26-43.

Das, M. (2024). Post-colonial Water Governance: Shifting Paradigms. *History and Sociology of South Asia*, 18(1), 124-133.

UGC Care List Journals

Singh, R., Gupta, C. P., & Chaudhary, P. (2023). Testing Corporate Life Cycle Theory: A Multinomial Logistic Regression Approach. *Journal of Commerce and Accounting Research*, 13(2), 87-97.

Saxena, R., Dhingra, A., & Pathak, R. (2023). Centrally-sponsored Schemes and Cooperative Federalism in India: A Case Study of Integrated Child Development Scheme. *Indian Journal of Public Administration*, 69(2), 261-274.

Pooja, M. (2022). National nutrition mission or Poshan Abhiyaan fighting with undernutrition among children, lactating mothers and pregnant women: an analysis. *Journal of the Asiatic Society of Mumbai National*, 96(10), 107-117.

Journals

Dr. Sanjay Chaudhary .(2023). Sports Injuries:A Rehabilitation and Prevention. *The Yogicjournal* , Vol. 8(2)(2023), 493-94

Research Projects

Indian Council of Social Science Research, Dr. Swadesh Singh, Media and Marginalised: A Study of Internet ERA for Marginalised Section, ₹ 5.0 lakhs

Indian Council of Social Science Research, Dr. Swadesh Singh, Changind Trends in Political Parties and party System in India, ₹ 2.5 lakhs

Indian Council of Social Science Research, Dr. Swadesh Singh, Am Empirical Analysis of Saving and Investment Pattern of Household residing in the National Capital Region, ₹ 4.0 lakhs

Patents Filed/Granted

6349127 US Design Patent and AI-Driven Centrifuge Tubes for Optimized Laboratory Workflows

6345938 UK Design Patent and Smart Biometric device to Record Attendance

Indian Patent Application Filed - 202411010372 and Method For Metagenomic DNA Extraction From Bioaerosols Collected Using Biosampler

Seminars Organized

“29th Kalidas Mahotsav 2024”, February 10, 2024

‘Identity and Politics of Staleless Language to Sindhi”, August 11, 2023

“International Sysposium: Shri Ram evang Bharat Rashtra”, February 20, 2024

“Elevating Grassroots: A path way to Health, Fitness and Olympic Excellence in India”, December 16, 2023

Conferences Organized

Cultures in Transformation: A Subcontinental Experience, 01 March 2024, NRC, ICSSR, Government of India

National (North Zone) Symposium on the Role of Probiotics in Neonatal and Child Health, 12 April 2023, Probiotics Association of India and Ram Lal Anand College, University of Delhi

Placement Details (Number and percentage of students placed)

64

Library Development

1070 books were purchased, 12 A.C has been installed and 06 new computers were bought during 2023-24

Faculty Strength

Total: 118 (One hundred and thirty three) - (Professor – 14, Associate Professor – 42, Assistant Professor – 28, Ad-hoc- 40, Guest- 09)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 51.07 Cr.

Grant Utilized: ₹ 51.07 Cr.

SATYAWATI COLLEGE (EVENING)

Major Activities and Achievements

The college has completed 50 years and has made progress in leaps and bounds. The college launched Savitribai Phule Book Bank, inaugurated on the auspicious day of Basant panchmi, February 14, 2024, by the Dean of Colleges, Prof. Balram Pani. Students have been awarded the prestigious Hana Scholarship, courtesy of the Hana Bank, Republic of Korea. A two days G20 Summit and Bharat - Indonesia: Bridging Culture and Building Economies was organised. College hosted Start Up Ideathon. On Innovation And Entrepreneurship; Yoga and aerobics workshop, T-20 cricket tournament, under the aegis of Viksit Bharat Abhiyan @2047. The college has also organised various Medical camp, Blood donation camp, tree plantation & cleanliness drive, Seven NCC Cadet where part of PM RALLY. Equal opportunity coordinated with the Help-The Blind Foundation (HTBF) to reach out to the specially abled students of the college wherein they received scholarship worth Rs. 10000/-. The college has also run an Educational project “Mission aakaar: An education programme for underprivileged children from Azadpur & Lalbag Basti. NEP implementation board was created in college to spread awareness among students and teachers

Publications

Scopus Indexed Journals

Mondal, H., Mondal, S., & Mittal, P. (2024). Evaluating large language models for selection of statistical test for research: A pilot study. *Perspectives in Clinical Research*, 10-4103.

Singh, J., Goyal, S. B., Kaushal, R. K., Kumar, N., & Sehra, S. S. (2024). *Applied Data Science and Smart Systems*.

Gupta, P. K., & Mittal, P. (2024). Modelling long memory dependence structure using FIGARCH-copula approach-evidence from major Asian stock markets. *Global Business and Economics Review*, 30(1), 56-71.

Mittal, P. (2024). Forecasting of crude oil prices using wavelet decomposition based denoising with ARMA model. *Asia-Pacific Financial Markets*, 31(2), 355-365.

Mittal, P., & Jora, R. B. (2023). Exploring student community engagement in higher education: A bibliometric analysis on the path to sustainable development. *Int. J. Exp. Res. Rev*, 32, 166-177.

Kaur, A., & Mittal, P. (2023). Wavelet based analysis of oil price shocks, exchange rate and stock market behaviour: Evidences from emerging markets. *OPEC Energy Review*, 47(3), 163-175.

Jain, R., Kaur, A., & Mittal, P. (2023). A co-occurrence network analysis of research work in supply chain finance and corporate sustainable strategy in industrial sector. *Int. J. Exp. Res. Rev*, 32, 378-386.

Okreglicka, M., Mittal, P., & Navickas, V. (2023). Exploring the mechanisms linking perceived organizational support, autonomy, risk taking, competitive aggressiveness and corporate sustainability: the mediating role of innovativeness. *Sustainability*, 15(7), 5648.

Mittal, P. (2023). Wavelet transformation and predictability of Gold Price Index Series with ARMA model. *Int. J. Exp. Res. Rev*, 30, 127-133.

Mittal, P., & Gautam, S. (2023). Logistic Regression and Predictive Analysis For AI Strategies in Public Services. *TEM Journal*, 12(2).

Jafar, A., Dollah, R., Mittal, P., Idris, A., Kim, J.E., Abdullah, M.S., Joko, E.P., Tejuddin, D.N.A., Sakke, N., Zakaria, N.S. and Mapa, M.T., 2023. Readiness and challenges of e-learning during the COVID-19 pandemic era: A space analysis in Peninsular Malaysia. *International Journal of Environmental Research and Public Health*, 20(2), p.905.

Gupta, R., & Symss, J. (2023). Does Corporate Governance Impact Risk Disclosure? An Empirical Analysis in the Indian Context. *Indian Journal of Corporate Governance*, 16(1), 9-27.

Ravi, N.K., Jha, P.K., Varma, K., Tripathi, P., Gautam, S.K., Ram, K., Kumar, M. and Tripathi, V., 2023. Application of water quality index (WQI) and statistical techniques to assess water quality for drinking, irrigation, and industrial purposes of the Ghaghara River, India. *Total Environment Research Themes*, 6, p.100049.

Chahal, S., & Gautam, S. K. (2023). Hydrogeochemical Characterization and Assessment of Water Suitability for Irrigation in Salt-Affected Area of Israna block, Haryana, India. *Water Conservation Science and Engineering*, 8(1), 20.

Garg, A., Sharma, Y. D., & Jain, S. K. (2023). Stability analysis of thermo-bioconvection flow of Jeffrey fluid containing gravitactic microorganism into an anisotropic porous medium. *Forces in Mechanics*, 10, 100152.

Garg, A., Sharma, Y. D., & Jain, S. K. (2023). Onset of triply diffusive thermo-bio-convection in the presence of gyrotactic microorganisms and internal heating into an anisotropic porous medium: Oscillatory convection. *Chinese Journal of Physics*, 84, 173-188.

Garg, A., Sharma, Y. D., & Jain, S. K. (2023). Instability Investigation of Thermo-Bioconvection of Oxytactic Microorganism in Jeffrey Nanoliquid with Effects of Internal Heat Source. *Journal of Porous Media*, 26(10).

Garg, A., Sharma, Y. D., Jain, S. K., & Saini, S. (2024). Impact of an anisotropic porous media on thermobioconvection instability in the presence of gyrotactic microorganisms and heating from below. *Special Topics & Reviews in Porous Media: An International Journal*, 15(1), 2151-4798

Garg, A., Sharma, Y. D., Jain, S. K., & Maheshwari, S. (2024). Numerical study of the influence of magnetic field and throughflow on the onset of thermo-bio-convection in a Forchheimer-extended Darcy-Brinkman porous nanofluid layer containing gyrotactic microorganisms. *Journal of Porous Media*, 27(8).

Singh, N. (2024). Thoughts of Pandita Ramabai and Sardar Patel on Socio-cultural Change: Convergence and Dichotomies. In *Culture Change in India* (pp. 44-68). Routledge India.

UGC Care List Journals

Tarika, D. R. J., & Pandey, P. S. Challenges and Complications in the Rise of Comparative Literature in Indian English Poetry: A Historical Analysis through Eminent Institutions of India. *BioGecko*, 12(3), 1175-1180

Research Projects

Indian Council of Social Science Research (ICSSR), Prof Prabhat Mittal, Student community engagement initiatives in Swachh Bharat Abhiyan: Environment and Sustainability campaigns in higher education institutions", ₹ 11.03 lakhs

Seminars Organized

“National Conference - Science in the Bhartiya Knowledge Tradition”, April 20, 2023

“G20 - Indian Indonesia culture - cum academic activities”, October 06, 2023

“हिंदी मातृभाषा के माध्यम से रोजगार”, February 27, 2024

Seminar/Conference Presentations (National / International)

Ankit Singh Sanghwan Presented a paper in International conference on “Diverse Landscape of Indian Culture: Continuity With Change, ARSD College, February 08-09, 2024

Isha Gupta presented a paper on Sangya Rajan presented a paper in the International Conference on “G-20 Conference on Resilient Approaches for New World Order & Viksit Bharat, September 25, 2023

Lokesh Kumar & Dr. Niharika Sharma & presented a paper in International conference titled “India- Africa Relations: Exploring New Pathways and Building the Future Together organised by Department of African Studies, University of Delhi on March 06-07, 2024.

Niharika Sharma, presented a paper In international conference on “Diverse Landscape of Indian Culture : Continuity With Change, ARSD College, University of Delhi, Delhi, February 08-09, 2024”

नरेश कुमार "अदिति महाविद्यालय एवं अखिल भारतीय साहित्य परिषद अंतरराष्ट्रीय संगोष्ठी ' सबके राम : वैश्विक संदर्भ में राम ' January 19, 2024".

Priyanka Sharma presented a paper titled “ Unravelling the Politics of Knowledge in the Historical Evolution of the Silk Industry in Jammu and Kashmir”, International Conference, December 28-30, 2023.

Rajeev Kumar Verma presented a paper titled " India- Africa Relations: Exploring New Pathways and Building the Future Together” in International conference organised by Department of African Studies, University of Delhi on March 06-07, 2024

Shashi Bhushan presented a paper on “Diverse Landscape of Indian Culture: Continuity With Change” in the International Conference on “Evolution of Buddhism as non ascetic religion” in ARSD College, February 08-09, 2024.

Tarika presented on “Writing Each Other: Mutual Representations of South Asia and Japan in History, Literature, and Philosophy” in the international conference “ SARC international conference , Soka University, Japan, November 25, 2023.

Virender Kashyap presented a paper titled “ India- Africa Relations: Exploring New Pathways and Building the Future Together in International conference Hindi Cinema: Bridging the relationship between India and Africa organized by Department of African Studies, University of Delhi on March 06-07, 2024.

Extension and Outreach Activities

Industrial visit to Parle G company by Placement cell. Excursion trip to heritage places in Delhi by Department of History. Visit to Biodiversity park. Visit to Rashtrapati Bhawan under the aegis of Viksit Bharat @2047. Visit to the World Book Fair, Pragati Maidan. A heritage walk to Mehrauli Archeological Park was also organised during 2023-24.

Library Development

The library had nearly 84000 books, to which 1816 new books have been added in the academic year 2023-24. The library has subscriptions of 21 newspaper, 17 magazines, in both Hindi and English. The college library also has access to the NLIST program through INFLIBNET, through which access to a further 6150 e-journals and 31,64,309 e-books is available. The college has Savitribai Phule Book Bank, inaugurated on the auspicious day of Basant Panchami,

Faculty Strength

Total: 140 (One hundred and forty) - (Professor – 17, Associate Professor – 08, Assistant Professor – 95, Guest- 20)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 32.18 Cr.

Grant Utilized: ₹ 33.56 Cr.

SCHOOL OF OPEN LEARNING

Major Activities and Achievements

The School of Open Learning (SOL) has diversified its course offerings, now including B.A. (H) Psychology, PGDADLM. 30 skill courses launched under Open Learning Development Centre/DDCE/SOL/COL are enhancing job readiness for the students. Enrolment has surged to more than 144,000, nearly 24,000 more than the last year, underscoring the popularity of SOL amongst students. Infrastructure upgrades encompassing technological enhancements like ET labs and COL Radio, renovated buildings etc. fostered improvements in teaching, learning and research environment. Additionally, bi-monthly placement sessions facilitate holistic development, featuring interview preparation and resumé building. Numerous companies have visited SOL for recruitment, furthering opportunities for its students.

Honours/Distinctions

Faculty

Dr. Ruhee Mittal, "Young Economist Award" for paper presentation titled "Measuring the Digital Maturity and Performance of Indian MSMEs using PLS-SEM" in 106th Annual conference of Indian Economic Association, December 21-23, 2023

Student

Payal Singh, B. LISC. And Nancy Goel, M.A. (Pol. Sc.) have achieved the highest marks in the University in the academic year 2022-23.

Publications

UGC Care List Journals

Meena, A., Dhir, S., & Sushil, S. (2024). Coopetition, strategy, and business performance in the era of digital transformation using a multi-method approach: Some research implications for strategy and operations management. *International Journal of Production Economics*, 270, 109068.

Gupta, R., Meena, A., & Dhir, S. (2024). Blockchain in the age of industrial revolution: A systematic literature review using bibliometric analysis. *Global Business and Organizational Excellence*, 43(5), 5-23.

Seminars Organized

“Mushroom Summit 2023” on November 22, 2024

Conferences Organized

106th Annual Conference of Indian Economic Association, December 21, 2023, Indian Economic Association

Seminar/Conference Presentations (National / International)

Dr. Ruhee Mittal on "Measuring the Digital Maturity and Performance of Indian MSMEs using PLS-SEM" in 106th Annual conference of Indian Economic Association, December 21-23, 2023

National/International MoUs Signed

MoU with Cambridge University Press & Assessment, Cambridge (UK) on January 23, 2024; GlobalLogic Technologies Pvt. Ltd, Hyderabad, Telangana on April 17, 2023; Thinkcyber India, Noida on December 29, 2023; British Council Education India Pvt. Ltd., New Delhi on April 12, 2023; Kansai University of International Studies, Japan on July 06, 2023; Electromech Solutions Pvt.Ltd., Kochi on February 02, 2024; Taxmann Allied Services Pvt.Ltd., New Delhi on January 12, 2024; AV Financial Experts Network Pvt.Ltd., Mumbai on December 12, 2023

Other Inter-Institutional Collaboration

Partnering with the Commonwealth Educational Media Centre for Asia (CEMCA) facilitated a range of capacity-building activities for staff members, enriching their skills and expertise.

Placement Details (Number and percentage of students placed)

526

Placement Number of Companies Visited for Campus recruitment

Banking & Finance, Service Industry, etc. – 46

Library Development

Total 2747 Books are added, 18 periodicals/ Journals and 24 newspapers are subscribed in 2023-24. The new library in OLDC has been developed as RFID enabled. Successfully conducted training programme for BLIS students of SOL for internship.

Faculty Strength

Total: 64 (Sixty Four) - (Professor – 07, Associate Professor – 06, Assistant Professor – 51)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 41.9 Cr.

Grant Utilized: ₹ 41.7 Cr.

SHAHEED BHAGAT SINGH COLLEGE

Major Activities and Achievements

A total of 10 promotions at various levels (Level-11, Level-12, Level-13A, and Level-14) have been completed. Further, Academic year 2023–24 was notable due to the appointment of 24 new faculty members in the departments of English, Hindi, Political Science, Environment Studies and History. The college also took many initiatives to develop new ways of making the campus eco-friendly. In order to become more ecologically conscious, the college has banned the use of plastic bottles. Further to bring and

strengthen the National Integrity, college has formed various society like Dev Bhoomi Society to promote and learn about Pahadi Culture. Similarly, few more other societies are formed to promote regional culture.

Honours/Distinctions

Faculty

Prof. Ruchi Gupta invited by Victoria University, Australia to be Ph.d. Supervisor (External) for their students. Now she is empanelled with the university and guiding one of the Ph.D. students there.

Dr Vishwa Raj Sharma and Dr. Amrita Bajaj has been choosen for Shri. P R Bhawe Memorial Prize by the Indian Water Works Association for their paper titled “Analyzing the possibilities and prospects of 24/7 water supply in Delhi, India”

अंतर्राष्ट्रीय स्वामी प्रज्ञानंद सम्मान समारोह 2023 में शिक्षा के क्षेत्र में योगदान के लिए शहीद भगत सिंह कॉलेज दिल्ली विश्वविद्यालय के प्रधानाचार्य प्रोफेसर अरूण कुमार अत्री को श्री हीराबल्लभ जोशी पुरस्कार प्रदान किया गया I कार्यक्रम में मुख्य अतिथि के रूप में केन्द्रीय विदेश एवं संस्कृति राज्यमंत्री श्रीमती मीनाक्षी लेखी जी उपस्थित रहीं। केन्द्रीय खाद्य आपूर्ति और पर्यावरण राज्यमंत्री श्री अश्विनी कुमार चौबे, भारतीय शिक्षण मंडल के राष्ट्रीय संगठन मंत्री माननीय शंकरानंद जी, विश्व हिन्दू परिषद दिल्ली के प्रांत अध्यक्ष श्री कपिल खन्ना जी और महामंडलेश्वर स्वामी राघवानंद जी महाराज भी उम्मीद अवसर पर उपस्थित रहे।

Publications

Scopus Indexed Journal

Yadav, M., Gupta, R., & Nair, K. (2024). Time for sustainable marketing to build a green conscience in consumers: Evidence from a hybrid review. *Journal of Cleaner Production*, 443, 141188.

Gupta, R., Nair, K., Mishra, M., Ibrahim, B., & Bhardwaj, S. (2024). Adoption and impacts of generative artificial intelligence: Theoretical underpinnings and research agenda. *International Journal of Information Management Data Insights*, 4(1), 100232.

Baber, H., Nair, K., Gupta, R., & Gurjar, K. (2024). The beginning of ChatGPT—a systematic and bibliometric review of the literature. *Information and Learning Sciences*, 125(7/8), 587-614.

Yadav, M., Gupta, R., Nair, K., Mishra, M., & Tawk, C. (2023). Sustainability Unleashed: Pioneering Carbon Removal Solutions for a Net-Zero Future. *Journal for ReAttach Therapy and Developmental Diversities*, 6(9s), 946-961.

Debnath, P., Dey, B. K., Dey, M., Gachu, H., Lachan, B., & Shome, M. K. (2023). Intellectual capital and firm performance in India after the companies act, 2013: A study of selected BSE-listed firms. *Journal of Social Economics Research*, 10(3), 108-123.

Meena, J. R. (2024). Productive Performance of Indian Food Manufacturing Industry: A Sub-Sectoral Analysis in a Stochastic Frontier Framework. *SEDME (Small Enterprises Development, Management & Extension Journal)*, 51(1), 27-40.

Mallick, S. K., Rudra, S., & Maity, B. (2023). Unplanned urban built-up growth creates problem in human adaptability: Evidence from a growing up city in eastern Himalayan foothills. *Applied Geography*, 150, 102842.

- Sahu, N., Das, P., Saini, A., Varun, A., Mallick, S. K., Nayan, R., ... & Kumar, A. (2023). Analysis of Tea Plantation Suitability Using Geostatistical and Machine Learning Techniques: A Case of Darjeeling Himalaya, India. *Sustainability*, 15(13), 10101.
- Rane, N. L., Achari, A., Choudhary, S. P., Mallick, S. K., Pande, C. B., Srivastava, A., & Moharir, K. N. (2023). A decision framework for potential dam site selection using GIS, MIF and TOPSIS in Ulhas river basin, India. *Journal of Cleaner Production*, 423, 138890.
- Rane, N. L., Günen, M. A., Mallick, S. K., Rane, J., Pande, C. B., Giduturi, M., ... & Alreshidi, M. A. (2024). GIS-based multi-influencing factor (MIF) application for optimal site selection of solar photovoltaic power plant in Nashik, India. *Environmental Sciences Europe*, 36(1), 5.
- Mallick, S. K., Rudra, S., & Maity, B. (2024). Land suitability assessment for urban built-up development of a city in the Eastern Himalayan foothills: A study towards urban sustainability. *Environment, Development and Sustainability*, 26(2), 3767-3792.
- Mallick, S. K. (2024). Urban built-up area footprint (UBAF): A novel method of urban bio-capacity and ecological sensitivity assessment. *Journal of Cleaner Production*, 440, 140846.
- Rane, N. L., Mallick, S. K., Saha, A., Pande, C. B., Rane, J., Roy, R., ... & Radwan, N. (2024). Appraisal on suitable landfill site selection for municipal solid waste disposal using GIS and MIF methods. *Physics and Chemistry of the Earth, Parts A/B/C*, 134, 103591.
- Satpati, S., & Sharma, K. K. (2023). Struggling for Life and Livelihood: Tribal Household's Economic Activities in the Rarh Region of West Bengal, India. *Contemporary Voice of Dalit*, 2455328X231172370.
- Lisanawati, G., & Putro, Y. M. (2022). Carbon Tax and Sustainable Development Goals 13: How Can Law Intervene?.
- Tanwar, S., Famhawite, L., & Verma, P. R. (2023). Numerical Simulation of bio-heat transfer for cryoablation of regularly shaped tumours in liver tissue using multiprobes. *Journal of Thermal Biology*, 113, 103531.
- Khattar, D., Agrawal, N., & Singh, G. (2023). Triple compound combination synchronization of eleven n-dimensional chaotic systems. *International Journal of Dynamics and Control*, 11(5), 2499-2513.
- Khattar, D., Agrawal, N., & Singh, G. (2023). Chaos synchronization of a new chaotic system having exponential term via adaptive and sliding mode control. *Differential Equations and Dynamical Systems*, 1-19.
- Khattar, D., Agrawal, N., & Singh, G. (2024). Anti-difference quadratic compound synchronization of Lorenz, Rössler, modified finance, and Shimizu–Morioka chaotic systems. *Indian Journal of Physics*, 98(4), 1415-1423.
- Agrawal, N., & Singh, G. (2024). Qualitative analysis of a novel 4D hyperchaotic system and its chaos synchronization via active, adaptive, and sliding mode control. *Indian Journal of Physics*, 1-17.
- Singh, H. K., Chandrasekharam, D., Raju, N. J., & Ranjan, S. (2024). Geothermal energy potential in relation to black carbon reduction and CO₂ mitigation of Himalayan geothermal belt—A review. *Geothermics*, 119, 102962.
- Kumar, R. (2024). Review Essay. Interrogating the Social in Indian Civilization. on Himanshu Roy (ed). *Social Thought in Indic Civilization*. *Indian Journal of Public Administration*, 70(1), 210-215.

UGC Care list Journal

Meena, J. R. (2024). Productive Performance of Indian Food Manufacturing Industry: A Sub-Sectoral Analysis in a Stochastic Frontier Framework. SEDME (Small Enterprises Development, Management & Extension Journal), 51(1), 27-40.

Journals

Dr Vandana Dhaiya .(2023). Journal of Business Studies (ISSN NO:- 0975-0150). Department of Commerce, Shaheed Bhagat Singh Coleege , XIII(1), 70

Research Projects

ICSSR, Dr. Vijay Vrat Arya, A study of Multidisciplinary Education in Indian Universities , 15 lakhs

ICSSR, Dr.Ayushman, An Analytical Insight into Challenges and Reforms brought by NEP 2020 in Higher Education Institutes of NCR and Uttar Pradesh Region, 15 lakhs

Seminars Organized

"Our Land, Our People: The Occupied Territories of Bharat", March 07, 2024

"Dalit Writing as an Alternative Literary Historiography of India", March 06, 2024

ICSSR, on "Multidisciplinary Education in Indian Universities", February 19, 2024

"An Analytical Insight into Challenges and Reforms Brought by NEP 2020 in Higher Education Institutes of NCR and Uttar Pradesh Region", February 17, 2024

"Systemic causes of the problems facing China's economy in the new era", November 11, 2023

Conferences Organized

"Synergising Industry 5.0 and Responsible Growth: A Pathway to Global Innovations" 9th February 2024, 09-02-2024, Commerce Association, Shaheed Bhagat Singh College, University of Delhi

International Conference on 'Resilient Approaches for New World Order & Viksit Bharat', September 25, 2023, Shaheed Bhagat Singh College (DU)

Seminar/Conference Presentations (National / International)

Govind Singh presented a paper titled "Anti-difference quadratic compound synchronization of Lorenz, Rossler, Modified Finance, and Shimizu Morioka chaotic systems" at the International Conference on Pure and Applied Mathematics (ICPAM 2024) organized by the Department of Mathematics, Janki Devi Memorial College, University of Delhi held during February 22-23, 2024.

Jai Ram Meena presented a paper titled "Productive Performance of Indian Food Manufacturing Industry: A Sub-Sectoral Analysis in a Stochastic Frontier Framework", at the 15th International Conference on Trade, Business, Economics and Law at St. Anne's College (University of Oxford), U.K. held from October 9-11, 2023. For this paper presentation, Dr. Jai Ram Meena received 100% financial support from the Indian Council of Social Science Research (ICSSR), New Delhi.

Jai Ram Meena presented a paper titled “Economic Thoughts of Dr. B.R. Ambedkar: An Introductory Review” at the National Conference on “The Problem of the Rupee: Its Origin and Its Solution” organised by Dr. Ambedkar International Centre and Centre for Social Development on January 13, 2024.

Ruchi Gupta presented a paper titled “Construction and Validation of Influencer Information Credibility Scale” at the 2nd International Conference on Technology, Innovation and Sustainability in Business Management (ICTIS 2023) organised by Middlesex University, Dubai on May 3-4, 2023

Ruchi Gupta presented a paper titled “From Double Taps to Sustainable Acts: Role of Consumer Mimicry in the Social Media Influencer Community Towards Promoting Sustainable Consumption – A Guiding Framework and Future Research Propositions” at the 2nd International Conference on Technology, Innovation and Sustainability in Business Management (ICTIS 2023) organised by Middlesex University, Dubai on May 3-4, 2023

Saumya Kumar presented a paper titled “Gender Differential in Parental Investment in Education: A Study of the Factors Determining Children’s and Adolescents’ Educational Investment in India”, at the International Conference on “Gender Equality and Women’s Economic Empowerment in Times of Crisis” organised by the Free Network (the Forum for Research on Eastern Europe and Emerging Economics and the ISET (the International School of Economics) from October 19-20, 2023.

Saumya Kumar presented a paper titled “Gender Differential in Parental Investment in Education: A Study of the Factors Determining Children’s Educational Investment in India” at the 2nd Conference on Political and Economic Issues, Society for Research Alternatives from September 27-29, 2021.

Sahil Ramchandani presented a paper titled “Corporate sustainability - Drivers, Practices, and Performance: An empirical study of Select Indian Companies” at the 6th International Conference of Multinational Enterprise and Sustainable Development (MESD’23) Association organized by the Department of Commerce, Faculty of Commerce and Business, Delhi School of Economics, University of Delhi on November 29-30, 2023.

Saumya Kumar was Guest Speaker for a seminar on “Role of Gender in Education and Labour” organized by the Queer Feminist Collective, Shaheed Bhagat Singh College, University of Delhi, April 01, 2024.

National/International MoUs Signed

A MoU was signed between SBSC and SGTU, Atal community Innovation Centre in October, 2023. The MoU seeks to facilitate the following with the mutual cooperation of both institutions towards advancement of the knowledge of the startup, innovators, employees, faculty, scholars and student of both the institution

Placement Details (Number and percentage of students placed)

158

Placement Number of Companies Visited for Campus recruitment

43

Extension and Outreach Activities

The NSS unit of the college conducts various youth awareness activities such as lectures on social and sociological issues, essay writing competitions, debate competitions, blood donation camps, book donation drives, donation drives for disaster-affected victims and educational classes for the children of slum area. Volunteers of NSS visited an NGO on November 9, 2023 to celebrate Diwali with the children. The event aimed to foster a sense of community and bring happiness to those in need during the festive season. Notebooks, pens, bags, cake and sweets were distributed. The menstrual awareness drive in Azadpur slums on International Women's Day was successful in educating and empowering women and girls while addressing the critical issue of menstrual hygiene in underserved communities. NSS volunteers conducted a cloth collection drive to gather clothing donations from students for distribution among the underprivileged on March 01-02, 2024. NSS Project Kabil visited NGO Teens of God to educate children about the geography of India and distribute essential school supplies on November 26, 2023. NSS undertook a series of initiatives aimed at promoting voter awareness among students and the community during Voters awareness week from March 9- 14, 2024 and organised various activities including Selfie Point for Voter Awareness (March 09, 2024), EVM Demonstration (March 11, 2024), Mega Voters Registration Drive (March 12-13 2024), Nukkad natak for voter awareness (March 13, 2024) and Poster Making Competition (March 14, 2024).

Library Development

In 2023-24, Library added 2221 titles in the collection of different disciplines like Commerce, Economics, Mathematics, Geography, Political Science, History, English and Hindi. In our effort to welcome and honour the demand of our students and faculty members 265 titles have also been added in our Reference Section comprising of competitive entrance books; general knowledge books; yearbooks; reports; atlases; etc. The total accessioned volumes as of now are 95955; however, the total collection of serviceable copies as on date is 68739 after deducting the collection which has been weeded over a period of 25 years. Library is also subscribing to 74 Periodicals, comprising of 56 Journals and 18 Magazines of academic and general interest. The data of our library has been migrated on Cloud in KOHA Library Management Software. Koha is an international open software with better services. It is user-friendly interface. It provides e-mail alert service, online reservation facility with web-OPAC for book searching. It sends the e-mail automatically and alert to users for overdue, check-outs and check-in. Koha allows the user sending online suggestions for purchasing books. Now, the timing of Reading Hall has been extended from 4:30 pm to 8 pm.

Faculty Strength

Total: 158 (One hundred and fifty eight) - (Professor – 24, Associate Professor – 26, Assistant Professor – 106, Ad-hoc- 1, Guest- 1)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 48.8 Cr.

Grant Utilized: ₹ 48.8 Cr.

SHAHEED BHAGAT SINGH COLLEGE (EVENING)

Honours/Distinctions

Faculty

Professor C.S. Dubey, received the prestigious "Maharshi VedVyas International Award" for the best book (Poetry) 2023 and a prize money of INR 5000/- for the poetry collection titled "The Door and The World" by Maharshi VedVyas Foundation, Kerala.

Publications

Scopus Indexed Journals

Goel, A., Gaur, D., Gupta, K., & Gupta, K. (2023). Factors impacting export intensity of SMEs in India. *Economics and Business Review*, 9(3), 22-43.

Gupta, R., & Ansari, A. H. (2023). Impact of employability perception on job satisfaction of new managers in information technology industry: mediating role of initial compensation. *International Journal of Indian Culture and Business Management*, 30(1), 102-118.

Sahu, N., Das, P., Saini, A., Varun, A., Mallick, S. K., Nayan, R., ... & Kumar, A. (2023). Analysis of Tea Plantation Suitability Using Geostatistical and Machine Learning Techniques: A Case of Darjeeling Himalaya, India. *Sustainability*, 15(13), 10101.

Thakur, S., Kar, A. K., & Sharma, N. (2023). Impact of Corporate Social Responsibility Orientation of CEOs on Online Reputation-Insights from Text Mining. In *IoT, Big Data and AI for Improving Quality of Everyday Life: Present and Future Challenges: IOT, Data Science and Artificial Intelligence Technologies* (pp. 117-138). Cham: Springer International Publishing.

Malhotra, S., Anil, K., & Kaur, A. (2023). Impact of Social Entrepreneurship on Digital Technology and Students' Skill Set in Higher Education Institutions: A Structured Equation Model. *Int. J. Exp. Res. Rev.*, 35, 54-61.

Tripathi, S., Talwar, P., Shaifali, Chaudhary, R. (2023). Simplified Insights on Sustainable HRM. *The Seybold Report*, 18(12), 1623-1637.

UGC Care List Journals

Srivastava, S., Pandey, B. W., & Negi, V. S. (2024). Community-based Approaches to Climate Change Adaptation and Livelihood Security in the High-Altitude Bhagirathi Valley of Garhwal Himalaya. *Journal of Resources and Ecology*, 15(1), 197-203.

Chopra, S. S. (2016). Tribal Identity Concerns in Literature: A Critical Study of Gopinath Mohanty's *The Ancestor*. *International Journal of Research*, 3(5).

Web of science

Singh, R., Kumar, V., Singh, S., Dwivedi, A., & Kumar, S. (2024). Measuring the impact of digital entrepreneurship training on entrepreneurial intention: the mediating role of entrepreneurial competencies. *Journal of Work-Applied Management*, 16(1), 142-163.

Gupta, R., & Ansari, A. H. (2023). The Impact of Perceived Employability on The Employment Quality of Management Graduates: The Mediating Role of Focused Job Search. *International Journal of Management Studies*, 30(2), 397-428.

Research Projects

ICSSR, Prof Anupama Hasija, Sustainable Development Strategy to Strengthen the Tribal Inhabitants through Indigenous practices in Jaunsar-Bawar belt of Uttarakhand: A Case Study of Bawar Area, ₹ 5 Lakhs

ICSSR, Prof Virendar Singh Negi, Glacier Lake Outburst Flood (GLOF) in Sikkim Himalayan Region: Assessment of Vulnerability, Risk and Preparedness for Disaster Management Strategy (DMSs), ₹ 15 Lakhs

Seminars Organized

Honorable Justice Adarsh Kumar Goel, Former Judge Supreme Court, Chief Guest, ICSSR, 75 Years of Federalism and Democracy in India: Some Reflections, March 02, 2024

Conference Organized

International Conference on "Samridh Bharat- A Journey Towards the Third Largest Economy", 22-02-2024, SBSEC

Placement Details (Number and percentage of students placed)

268

Placement Number of Companies Visited for Campus recruitment

57

Extension and Outreach Activities

Talentofair- The Placement and Internship Fair organized by SBSEC, the event showcased a blend of online and offline participation, attracting more than 50 companies to college premises including Zomato, Bajaj Allianz etc. It provided opportunities to students to explore internship and placement prospects across various industries on March 02, 2024

Library Development

Wifi was installed and enhanced for better resource access for students. CCTV installation was done in order to ensure welfare and security of resources and students.

Faculty Strength

Total: 107 (One hundred and seven) - (Professor – 14, Associate Professor – 15, Assistant Professor – 69, Ad-hoc- 1, Guest- 8)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 28.8 Cr.

Grant Utilized: ₹ 31.48 Cr.

SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES FOR WOMEN

Major Activities and Achievements

Shaheed Rajguru College of Applied Sciences for Women was awarded the District Eco-SDG Champion 2023 certificate with Outstanding Performance Grade 'S' for East Delhi District, Delhi by APEX SDG, registered under Ministry of Micro, Small and Medium Enterprises (MSME). The college successfully conducted ten Eco-SDG and Skill development activities with more than 800 participants taking part in various activities. The college organized the 'India Mushroom Summit' in association with School of Open Learning and Milkyway Technologies Ltd. from 21-23 November 2023. This pioneer summit marks a significant leap towards harnessing the potential of mushroom cultivation for the nation's growth. The exhibition at the summit was formally inaugurated by the Chief Guest Prof. Yogesh Singh, Vice Chancellor of the University of Delhi, and Guest of Honour Mr. Atul Kumar Tiwari, Secretary of the Ministry of Skill Development and Entrepreneurship. The summit saw participation of many national and international companies.

Publications

Scopus

Mol, N., Priya, A., Singh, A. K., Mago, P., & Ray, A. K. (2024). Unravelling the impacts of climatic heat events on cardiovascular health in animal models. *Environmental Research*, 118315.

Bhadoriya, P., Sharma, R., Mehrotra, R., Kaur, S., Srivastava, I., Jain, M., & Kaushik, P. (1896). A review on re-emerging bahrotra, R., & Vcteriophage therapy in the era of XDR. *Biocell*, 47(9), 1915-1930.

Pasricha Sarin, L., Sree, K. S., Bóka, K., Keresztes, Á., Fuchs, J., Tyagi, A. K., ... & Appenroth, K. J. (2023). Characterisation of a spontaneous mutant of *Lemna gibba* G3 (Lemnaceae). *Plants*, 12(13), 2525.

Bhardwaj, D., & Kaushik, N. (2023). HPLC–DAD fingerprinting coupled with chemometric analysis can successfully differentiate Indian *Berberis* species and its plant parts. *3 Biotech*, 13(7), 254.

Garg, N., Pratap, Y., & Kabra, S. (2023). Efficient implementation of a DSIG-JLT-based multiplexer and demultiplexer using different logic styles at 20-nm technology. *Journal of Computational Electronics*, 22(6), 1626-1635.

Chauhan, A., Anjaly, K., Saini, A., Kumar, R., Kuanr, B. K., & Sharma, D. (2023). Vitamin k3-loaded magnetic nanoparticle-mediated synergistic magnetothermodynamic therapy evokes massive ROS and immune modulation for augmented antitumor potential. *ACS applied materials & interfaces*, 15(23), 27515-27532.

Sehgal, H. D., Pratap, Y., & Kabra, S. (2023). Designing and Reliability analysis of radiation hardened Stacked gate Junctionless FinFET and CMOS Inverter. *IEEE Transactions on Device and Materials Reliability*, 23(2), 249-256.

Kumar, P., Kumar, R., Kumar, S., Khanna, M. K., Kumar, R., Kumar, V., & Gupta, A. (2023). Interacting with Futuristic Topological Quantum Materials: A Potential Candidate for Spintronics Devices. *Magnetochemistry*, 9(3), 73.

Kumar, P., Kumar, R., Sharma, V., Khanna, M. K., & Kuanr, B. K. (2024). Thickness dependent structural, morphological, and magnetic properties of PLD grown CoFe thin film. *AIP Advances*, 14(2).

Kumar, P., Kumar, R., Sharma, V., Khanna, M. K., & Kuanr, B. K. (2024). Influence of growth temperature on the magnetization dynamics of sputtered CoFeB thin films on various substrates and their microwave device functionality. *Journal of Alloys and Compounds*, 988, 174314.

Das, K., Meena, R., Gaharwar, U. S., Priyadarshini, E., Rawat, K., Paulraj, R., ... & Bohidar, H. B. (2023). Bioaccumulation of CdSe quantum dots show biochemical and oxidative damage in Wistar rats. *Oxidative Medicine and Cellular Longevity*, 2023(1), 7707452.

Das, K., Bhatt, N., Parambil, A. M., Kumari, K., Kumar, R., Rawat, K., ... & Meena, R. (2023). Divergent responses of hydrophilic CdSe and CdSe@ CdS core-shell nanocrystals in apoptosis and in vitro cancer cell imaging: a comparative analysis. *Journal of Functional Biomaterials*, 14(9), 448.

Das, K., Priyadarshini, E., Prasad, T., Rawat, K., & Bohidar, H. B. (2024). CdSe@ CdS core-shell quantum dots as antifungal agents: significance of particle size and shell thickness. *Journal of Nanoparticle Research*, 26(1), 20.

Kumar, A., Sah, D. K., Rai, Y., Yadav, A. K., Solanki, P. R., Ansari, M. S., & Bhatt, A. N. (2024). Granular Hemostatic Composite of Alginate, Calcium, and Zinc for Rapid and Effective Management of Post-Traumatic Hemorrhage. *ACS Applied Materials & Interfaces*, 16(8), 10565-10579.

Kaur, J., & Sodhi, G. S. (2023). Telegraphic code for fingerprints: How justice was denied to the innovator who helped ameliorate the criminal justice system. *Endeavour*, 47(1-2), 100863.

Kaur, S., Kaur, G., Sodhi, G. S., & Kaur, J. (2023). Forensic importance of toolmarks evidence: A review. *International Journal of Medical Toxicology & Legal Medicine*, 26(1and2), 110-114.

Kaur, J., Singh, H., & Sodhi, G. S. (2023). A Novel Fingerprint Detecting Composition Based on the Food Dye, Tartrazine. *International Journal of Medical Toxicology & Legal Medicine*, 26(3and4), 233-235.

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UGC Care List Journals

Mago, P., Kaur, S., Srivastava, I., Mehrotra, R., Kaur, K., Sharma, R., & Yadav, A. (2023). A review on unravelling the medicinal properties of magical mushrooms: *Cordyceps militaris*. *Biomedicine*, 43(5), 1368-1375.

Kaur, K., Sharma, S., Shree, N., & Mehrotra, R. (2023). Recent advancements and mechanism of plastics biodegradation promoted by bacteria: A key for sustainable remediation for plastic wastes. *Biosciences Biotechnology Research Asia*, 20(1), 1-12.

Mehrotra, R., Sharma, S., Shree, N., & Kaur, K. (2023). Bacterial Cellulose: An Ecological Alternative as a Biotextile. *Biosciences Biotechnology Research Asia*, 20(2), 449-463.

Mago, P., Sharma, R., Hafeez, I., Nawaz, I., Joshi, M., & Mehrotra, R. (2023). Mushroom based Cosmeceuticals: An Upcoming Biotechnology Sector. *Biosciences Biotechnology Research Asia*, 20(2), 381-394.

Kashyap, H., Makol, V., & Khatri, M. (2023). Screening of Phytochemicals from *Derris indica* for Antimycobacterial Potential using Molecular Docking Analysis. *Biosciences Biotechnology Research Asia*, 20(3), 907-917.

Banswal, S., Prakash, M. (2023). Assessment Of Antimicrobial Activity Of Solo Himalayan Garlic And Onion Crude Extracts. International Journal of Creative Research Thoughts, 11(9), a754-a760.

Mishra, A., Ahlawat, S. (2023). Essence of Machine Learning in Google Self Driving Cars. International Journal for Research in Applied Science & Engineering Technology, 11(9), 787-791.

Web of science

Mehrotra R., Khera K. and Sharma R. (2023). Keratinase Of Bacillus Subtilis N-49: A Novel Strain Of Indian Origin Possessing Potential To Enhance Transungual Drug Delivery. International Journal of Biology, Pharmacy and Allied Sciences, 12(11), 4944-4955.

Priya, A., Dashti, M., Thanaraj, T. A., Irshad, M., Singh, V., Tandon, R., ... & Ray, A. K. (2024). Identification of potential regulatory mechanisms and therapeutic targets for lung cancer. Journal of Biomolecular Structure and Dynamics, 1-18.

Seminars Organized

“PCB Designing and Fabrication (Workshop)” on October 06, 2023

“STEM Education” on November 06, 2023

“Introduction to QuantumATK Virtual NanoLab Software (Synopsys® - Quantumwise® Inc)” on March 15, 2024

“Medical Imaging Equipment in Radiology” on November 07, 2023

“State of Education-Embracing New Technologies” on October 26, 2023

Conferences Organized

Ms. Reshma Sinha , presented a paper on “Analysis of the electronic and optical properties of MoS₂ and WSe₂ using the First Principle Density Functional Theory” in International conference ‘Women Researchers in Electronics and Computing’, 21-23 April 2023 The Department of ECE, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India

Seminar/Conference Presentations (National / International)

Ms. Reshma Sinha , presented a paper on “Analysis of the electronic and optical properties of MoS₂ and WSe₂ using the First Principle Density Functional Theory” in International conference ‘Women Researchers in Electronics and Computing’, 21-23 April 2023 The Department of ECE, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India

National/International MoUs Signed

MOU is signed on March 15, 2024 for the establishment of Bakery & Confectionery skill training & incubator facilities between School of Open Learning, University of Delhi, AssoCom Institute of Bakery Technology & Management (AIBTM) & Shaheed Rajguru College of Applied Sciences for Women, University of Delhi for the period of one year at open learning development Centre (OLDC), University of Delhi, Keshav Puram, Delhi.

Placement Details (Number and percentage of students placed)

57

Placement Number of Companies Visited for Campus recruitment

Total number of companies visited: 302 Nature of company: Consulting, Financial Services, Sales and Marketing, Technology, Travel, Ed-Tech.

Extension and Outreach Activities

NSS SRCASW organized several workshops and sessions covering diverse topics including “Mass Awareness Generation and Training Cum Sensitization Programme on Life Saving Technique CPR (Cardiopulmonary Resuscitation)” along with District Disaster Management Authority Office of the District Magistrate (East), on 19 September, 2023. Also, NSSSRCASW utilized the opportunity to conduct a session on Cyber Hygiene and Awareness along with the Delhi Police under the aegis of IQAC, dated 22 February, 2024 enhancing the knowledge and cyber skill sets for personal and societal well-being. Call of Green, The Cleanliness and Plantation drive, organized numerous cleanliness drives aiming to cultivate a strong environmental consciousness among volunteers. These initiatives included the Diwali clean-up, Best out of waste projects, college cleaning campaigns, cleaning near bus stations spreading awareness about Lymphatic Filariasis (LF) and campaign against Mass Drug Administration (MDA), as well as creating paperweights from stones. Altruistic, The Donation and Visits drive, embodies the philosophy that "Helping hands are better than praying lips", and has made commendable efforts to uplift others in various ways. Activities done under this drive included distributing sweets and chocolates during Diwali. Altruistic' drive tried to weave intangible bonds leaving a trail of warmth, empathy, and collective action. Pragati Ki Aar, the literacy drive, stands as a dynamic initiative committed to fostering awareness among the youth about pivotal social issues, including mental health and healthcare. The drive's activities encompass various initiatives, such as creating videos on eco-friendly options for Diwali, safety measures, and pet safety, crafting poster highlighting the importance of proper sanitation and hygiene practices, producing videos dispelling misconceptions about AIDS and creating handmade posters against MDA, and also organizing human chain formations to raise awareness about lymphatic filariasis, making book covers for notebooks during festivals, and spearheading the "100 Days to Beat Plastic" campaign. Such activities help in creating informed and empowered individuals who can contribute meaningfully towards a better society.

Library Development

The college library is RFID (Radio Frequency Identification system) enabled, which is being used for library housekeeping operation. The RFID system included self-circulation desk, staff work station, security gate, book drop box, RFID reader, RFID sticker for Book, RFID enabled member card, SMS and e-mail services in each book transaction. The College library has more than 20500 printed books and approx. 1,35,000 e-books, 11 printed journals and many scientific encyclopedia and periodicals covering all aspect of fundamental science. The library subscribes to a large number of Electronics Resources through UGC-Infonet, DULIS Electronic Journal and NLIST of Infflibnet, Its includes 11 Online Databases on Reference & Citation Sources, 7 online Databases on Bibliographic Sources, 2 Online Databases on Citation Analysis Resources, 5 online Databases on Financial and Statistical Sources, Single databases on Doctoral Theses and 77 online Databases on Full Text Sources.

Faculty Strength

Total: 128 (One hundred and twenty eight) - (Professor – 07, Associate Professor – 15, Ad-hoc- 52, Guest- 54)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 33.4 Cr.

Grant Utilized: ₹ 29.4 Cr.

SHAHEED SUKHDEV COLLEGE OF BUSINESS STUDIES

Major Activities and Achievements

SSCBS has been adjudged the Best Undergraduate Business School in India in 2023 by India Today Magazine for the fourth time in a row. The National Institutional Ranking Framework (NIRF) has ranked SSCBS in the top 100 in the Colleges category for ranking 2023. In the Open Magazine BBA Ranking 2023, an annual ranking of the top BBA colleges in India, based on several factors, including academic excellence, placement record, faculty strength, and infrastructure, SSCBS has been ranked first, for the second consecutive year. Global achievements of the college includes: Rank 3 at the Global Case Competition at Harvard; Rank 3 at the World Asian Case Competition; Rank 1 at Global Microfinance Case Competition, Rank 1 at HSBC Case Competition and AIR 22, 38, 47 in CA Inter Exam

Honours/Distinctions

Faculty

Following faculty are members in Editorial Boards of Journals:

Dr. Anamika Gupta, International Journal of Data Analysis Techniques and Strategies, ISSN: 1755-8069(online), 1755-8050(print), Inderscience Publishers

Dr. Kumar Bijoy, : Journal of Finance and Accounting ISSN: 2347-4467

Dr. Mona Verma, Journal of Graphic Era University. ISSN: 2456-4281

Dr. Amrina Kausar, Guest Editor, OPSEARCH, Springer Publication. ISSN: 0975-0320

Publications

Scopus Indexed Journals

Kausar, A., Hasan, A., Maheshwari, S., Gautam, P., & Jaggi, C. K. (2024). Sustainable production model with advertisement and market price dependent demand under salvage option for defectives. Opsearch, 61(1), 315-333.

Kausar, A., Hasan, A., & Jaggi, C. K. (2023). Sustainable inventory management for a closed-loop supply chain with learning effect and carbon emission under the multi-shipment policy. International Journal of System Assurance Engineering and Management, 14(5), 1738-1755.

Kochhar, S. K., & Gupta, A. (2023). Deploying Change Modeling to Study the Evolution of COVID-19 Related Menstrual Health Issues. *Adv Artif Intell Mach Learn*, 3, 1460-1481.

Gupta, S., & Gupta, P. (2004). Parameter Tuning of Coronavirus Herd Immunity Optimizer for Detection of Communities in Social Networks. *Advances in Artificial Intelligence and Machine Learning*. 2023; 3 (4): 99.

Tomar, S., Arundhathi, A., Gupta, S., & Sharma, M. (2024). Digital assessment: impact on student motivation, peer learning, group dynamics. *Journal of Education and Learning (EduLearn)*, 18(1), 9-17.

Sahay, R. R., & Bhatia, G. (2024). Higher order strict global minimizers in non-differentiable multiobjective optimization involving higher order invexity and variational inequality. *OPSEARCH*, 61(1), 226-244.

Jain, S., & Gupta, C. P. (2023). A study of impact of IFRS convergence in India on debt–equity components of financial statements. *Global Business Review*, 24(5), 933-952.

Gupta, S., Tomar, S., & Gupta, A. (2023). Learner-generated YouTube presentations for formative assessment. *STEM Education*, 3(4), 306-330.

Gupta, A., Kochchar, S. K., & Joshi, A. (2023). Image Classifier based on Histogram Matching and Outlier Detection using Hellinger distance. *Journal of Applied Data Sciences*, 4(4), 407-413.

Kochhar, S. K., & Gupta, A. (2023). Deploying Change Modeling to Study the Evolution of COVID-19 Related Menstrual Health Issues. *Adv. Artif. Intell. Mach. Learn.*, 3(3), 1460-1481.

Tomar, S., Arundhathi, A., Gupta, S., & Sharma, M. (2024). Digital assessment: impact on student motivation, peer learning, group dynamics. *Journal of Education and Learning (EduLearn)*, 18(1), 9–17.

Paridhi, & Arora, A. (2023). Sustainability reporting: Current state and challenges. *Business Strategy & Development*, 6(3), 362-381.

Paridhi, & Ritika. (2024). Sustainability reporting for boosting national commitment and overcoming challenges: A hierarchical model. *Business Strategy & Development*, 7(1), e334.

Upadhyay, A., Nigam, N. K., Mishra, P. K., & Rai, S. C. (2024). Climatic variability and its impact on the indigenous agricultural system using panel data analysis in the Sikkim Himalaya, India. *Environmental Monitoring and Assessment*, 196(1), 33.

Paridhi, Saini, N., & Shri, C. (2024). Environmental, social, and governance reporting adoption factors for sustainable development at the country level. *Environment, Development and Sustainability*, 1-40.

UGC Care List Journals

Bijoy, K., & Kedia, A. (2023). Shift in Factor Investing: An Empirical Study in India. *Mudra: Journal of Finance and Accounting*, 10(2), 75-98.

Kumar, A., & Totla, M. (2023). Do Oversubscribed IPOs Perform Better in the Long Run? Evidence from the Emerging Economy of India. *Indian Journal of Finance*, 17(8), 27-42.

Kumar, A., & Totla, M. (2023). Impact of Ind-AS on IPO Underpricing in India. *Journal of Business Thought*, 14, 107–119.

Web of Science

Gupta, A., Pandey, G., Gupta, R., Das, S., Prakash, A., Garg, K., & Sarkar, S. (2024). Machine Learning-Based Approach for Predicting the Altcoins Price Direction Change from a High-Frequency Data of Seven Years Based on Socio-Economic Factors, Bitcoin Prices, Twitter and News Sentiments. *Computational Economics*, 1-46.

Gupta, A., Thakkar, K., Bhasin, V., Tiwari, A., & Mathur, V. (2024). Bystander Detection: Automatic Labeling Techniques using Feature Selection and Machine Learning. *International Journal of Advanced Computer Science & Applications*, 15(1).

Seminars Organized

“Workshop on Financial Literacy”, July 04, 2023

“Financial Empowerment through Innovative Wealth Creation”, June 30, 2024

“Issues and Challenges of Examinations (NEP)”, November 02, 2023

“Practising doctors and faculty at AIIMS Delhi , Self, Mental Health Awareness (Faculty Development Program)”, March 11, 2024

Mr. Aswini Bajaj , CEO, Leveraged Growth , Self, Financial Analytics , February 27, 2024

Conferences Organized

7th International conference on Innovative computing and communication on February 16, 2024

G20 - Academic and Cultural Confluence: Bridging Bharat and Italy on October 18, 2023

Seminar/Conference Presentations (National / International)

Abhimanyu Verma presented paper on Recent Trends in Engineering, Technology and Business Management (ICRTETBM 2024) - Multi-Criteria Approach to Rank Last-Mile Delivery Modes for Enhanced Customer Satisfaction in 3rd International Conference, Amity University, Noida on February 24, 2024

Kumar Bijoy presented paper on “Sustainable Business Strategies, Models and Values: Role of MNE Strategy, National Policies, and Global Partnerships - Impact of Welfare Policies for Socio-Financial Inclusion: An Analysis” in 6th International Conference of MSED’23 Association on 29 November 2023

Madhu Totla presented paper on “Demystifying Signalling Hypothesis of Underpricing in Emerging Capital Market” in World Finance Conference 2023, University of Agder, Norway on August 02, 2023

Onkar Singh presented paper on “Advanced Informatics for Computing Research (ICAICR-2023) - Bitwise-XOR for Cancelable Biometrics” in 6th International Conference, MDU, Rohtak on December 16, 2023

Paridhi presented paper on “Study of Factors affecting Sustainability Reporting at Macro and Micro Level” in 11th Annual International Conference on Sustainable Development (ICSD 2023), Columbia University Campus in New York City on September 19, 2023

Narander Nigam paper presented on “Political stability Index and FDI nexus for democratic countries: A Cross country investigation” in 45th All India Accounting Conference & International Seminar on Accounting Education & Research on December 9 2023

Nidhi Kesari presented paper on “Growing Greener - Strengthening Horticulture through Innovations, Sustainability, and Market Access - Enhancing Marigold Floriculture: Foliar Spray of Boron Transforms Ornamental Trails under deficit Irrigation Strategies” in Agartala, Tripura on March 19, 2024

Ramesh Kumar presented paper on “Examine how G20 policies impact technology transfer, MNC activities, and the subsequent migration trends in the Indian IT and tech sector” in 74th All India Commerce Conference 2023 on December 14, 2023

Raj Kumar presented paper on “Applied Economics and Finance (ICAEF) - Determinants of public healthcare utilization for maternal and child health among the poor” in International Conference in India, Pilani, Rajasthan on November 3, 2024

Raj Kumar presented paper on Impact Evaluation of Mohalla Clinic on Maternal Healthcare Utilization in the Slums of Delhi in Global Conclave on Sustainable Development Goals: Progress, Challenges and Way Forward on March 07, 2024

National/International MoUs Signed

ASC Academy International – CIMA SE Asia Sdn Bhd (Malaysia)

Other Inter-Institutional Collaboration

Collaborated with University of Valladolid Spain, Korea Institute of Digital Convergence (South Korea), National Institute of Technology Patna and Universal Innovator for the 7th International Conference on Innovative Computing and Communication (ICICC 2024) (February 16-17, 2023). Collaborated with NSE Academy Ltd for NSE Academy Certified Capital Market Professional (NCCMP). Collaborated with BSE Institute Ltd (an arm of the Bombay Stock Exchange) for Financial Modeling & Algo Trading.

Placement Details (Number and percentage of students placed)

245

Placement Number of Companies Visited for Campus recruitment

80 Companies were from consulting, investment banking, Private equity, derivatives, FMCG, Edtech and Venture capitalist domain

Extension and Outreach Activities

GirlUp Ruhi, SSCBS, initiated impactful endeavors in 2023-24. A significant event was the Breast Cancer Awareness session led by Dr. Vandhana Rajgopal, engaging around 100 students. Discussions centred on symptoms, early detection, and treatment options, complemented by a live demonstration promoting inclusivity. Another noteworthy initiative was a CUET-UG Awareness Session at a local boys' school, attended by approximately 100 students. GirlUp Ruhi hosted a compelling Women's Day Speaker Session featuring Ms. Ismini Panagopoulou and Ms. Poonam Agarwal. Their insights on workplace challenges and empowerment resonated with attendees. Beyond these, GirlUp Ruhi organized the Pride Palette Event celebrating Pride Month, fostering inclusivity.

Enactus, a student-run organization empowering community through social entrepreneurship, impressed in various competitions (2023-24). They tackled B-plan challenges at StartupGala (SRCC) and Nirmaan (Sri Venkateswara) presenting projects like 'Kaagazi' (focus area not mentioned). Competitions like Pitch Perfect (FMS) and Prarambh (NSUT) demanded presentations highlighting the problem, solution, financial projections, and social impact of their ventures. Enactus also thrived in pitching existing projects. Events like IgniteX (XLRI) and C2P Social Entrepreneurship Summit (SRCC) tested their ability to explain project feasibility, scalability, and business models to a panel. They even championed 'Kaagazi' at Aavishkaran (BVP) and Envision (SGGSCC). Enactus' adaptability extended to sustainability-focused competitions. Eco Showdown (ARSD) and Race to Revival (LSR) required crafting sustainable business ideas within a tight timeframe, incorporating them into sales pitches with auctions. Enactus even developed a sustainability-focused marketing campaign for a project in Entrigue (CVS). Kartavya, social services arm, along with the NSS unit, works relentlessly to empower underprivileged communities. Project Saksham focuses on financial independence for underprivileged youth of all ages by equipping them with knowledge about careers (all fields), essential skills, and government support programs. Project Furry cares for stray animals (dogs, cows, cats, rabbits) by providing food, shelter, and medical attention, serving hundreds of animals in need. They've also championed gender equality through Project Muskan, conducting workshops on Durga Puja safety, mental health, and menstrual hygiene. Kartavya's dedication extends beyond immediate needs. In 2023-24, they organized successful donation drives for clothes and food, directly impacting countless individuals. Recognizing the importance of practical education, Kartavya has partnered with various industries, benefiting students by bridging the gap between academics and real-world careers. This impactful collaboration has exposed students to current industry trends and practical skills. Additionally, Kartavya has fostered international connections by establishing partnerships with esteemed foreign universities, promoting knowledge exchange and cultural enrichment. Eco Club is dedicated to promoting sustainability through various initiatives such as tree plantation, waste management, and educational seminars. They collaborate with local organizations, organize clean-up drives, and encourage participation in environmental competitions, fostering an eco-conscious mindset among students. The club achieved significant milestones by conducting a cleanliness drive at the Ridge Reserve Forest in Collaboration with 'There is No Earth B', installing of Green Wall at the college campus with 70+ plants, and Japanese Park Cleanliness Drive, collecting 35 kilograms of waste. A visit to Bharte Kadam NGO during Diwali to raise awareness regarding, the cleanliness drive at Sanjay Van, clearing over 15 kilograms of waste, showcasing the impact of community engagement in environmental preservation, visit Amrit Udyan, offering rich learning experiences in biodiversity and conservation, reinforcing environmental awareness among members. Eco Club also conducted an environmental session with the CEO of SustainEco on environmental preservation, featuring dynamic exchanges and discussions on influential environmental movements like the Chipko Aandolan. In collaboration with CRY, CDF, SSCBS successfully conducted a Live Project addressing cybersecurity concerns among government school students. Through interactive workshops, they were able to educate over 500 students on cyber scams and preventive measures, fostering digital literacy and a sense of responsibility. Additionally, value-adding speaker sessions have been conducted, including the one featuring Mr. Vikash Dhar, an experienced entrepreneur and banker, who shared insights on entrepreneurship and bank insurance, inspiring attendees to explore new avenues in business and finance. CDF and SSCBS set up a stall under Viti'23 offering a relaxing atmosphere with interactive games and homemade treats, fostering community connections and providing attendees with moments of respite and enjoyment. Moreover, CDF also has undertaken regular visits to local NGOs focused on the upliftment of the children through computer skills training and recreational activities,

fostering joy and empowerment among participants. Throughout the past year, the Rotaract Club actively served the community through a multitude of initiatives. In May 2023, they partnered with the Rotary Club of Faridabad Midtown to host a Blood Drive, collecting 12 vital blood units. Blood Donation Drive was also organized near Janyug Apartments, resulting in the collection of approximately 12 blood units. Project Greenovation, spearheaded by the Rotaract Club of GL Bajaj, aimed to combat pollution and promote a greener future. Through a three-day Plantation Donation Drive, the community united to plant saplings across households, fostering a culture of sustainability and collective responsibility for the planet. Project Aadmaraksha, organized by the Rotaract Club of Delhi Vibrance, offered a self-defense workshop at the Delhi School of Professional Studies and Research.

Library Development

During 2023-24, In total 1117 number of new titles added in the collection in addition to 25,464 books, 56 magazines and journals of national and international repute and 14 newspapers. Library has institutional membership of NLIST (National Library and Information Services Infrastructure for Scholarly Content) and DELNET and students are encouraged to access and make use of e-books and e-journals accessible through them. Library shares digital resources in the form of online magazine, journals and newspapers clippings along with the useful links to the articles with the users. All college library activities such as circulation, technical processing, serial control and system administration are automated using the cloud based Open-Source Solution i.e. KOHA version 23.05.05.000 Apart from the print resources, teaching and research is also supported by accessing the large number of electronic resources (e-journals, e-books and databases) accessible through IP- based and Remote Access facility of DU eLibrary. It also provides access to eShodhSindhu resources accessible through DULS. Awareness of online resources such as Directory of Open Access Journals (DOAJ), Directory of Open Access Books (DOAB), Internet Archives, eShodhganga and National Digital Library with the faculty members and students were shared. IRNIS Instance has been created for faculty research publications to showcase their citations and H - index. Library Internship was given to five interns for one month to make them learn the functionality of the library services.

Faculty Strength

Total: 72 (Seventy-Two) - (Professor – 02, Associate Professor – 09, Assistant Professor – 16, Ad-hoc- 2, Guest- 43)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 18.3 Cr.

Grant Utilized: ₹ 18.3 Cr.

SHIVAJI COLLEGE

Major Activities and Achievements

Shivaji College is accredited with Grade 'A' by NAAC. It ranks 16th in Science and Humanities and 14th in Commerce as per the India Today Ranking (Delhi State). The College launched 05 interdisciplinary add-on courses in Chemistry, Computer Science, Physics, Economics, Commerce respectively, from March-

April 2024, each spanning 30 hours. The curriculum of these courses focuses on practical skills and value addition to the existing syllabus. Around 500 students are currently enrolled in these programs. A flagship theme Shivraj 350 defined the cultural and academic environment of Shivaji College from September 2023 to April 2024 as the institution paid homage to the vision and principles of Chhatrapati Shivaji Maharaja by organizing events, lectures, competitions, activities inspired by the political, administrative, social, and cultural aspects of the great Maratha. The College expanded its infrastructure as the Occupancy Certificate for its state-of-the-art Jijabai Block was granted in February 2024.

Honours/Distinctions

Faculty

Prof. Virender Bhardwaj, Principal, Shivaji College was awarded Vishesh Sammaan by The Hindi Magazine on the occasion of International Campaign Signature in Hindi during 2023-24

Dr. Deepika Yadav, received the ISSN (The International Society for Scientific Network) award for, "INTERNATIONAL BEST RESEARCHER for excellence in Environmental Biology based on the "Bioaerogels" research paper on May 07, 2023 during ISSN International Research Awards and Congress (IIRAC-2023) in collaboration with World Research Council, Times of Research & Z24 News.

Dr Preeti Kumari was awarded the Wise postdoctoral fellowship (women Scientist A) 2024 by DST, Govt. of India.

Dr. Suman Kharbanda, received best paper award for the research paper 'Strategies for Promoting Consumption of Eco-Friendly Products among Consumers: Learning from Findings of an Empirical Study' at International Conference 'Innovative Sustainable Practices: A Global Multidisciplinary Approach' June 2023 organised by Assam Kaziranga University and Inspira Research Association, Jaipur

Prof. Darshan Pandey, Department of Hindi, was honored with a National level award 'Pandit Amba Sahay smriti Sahitya Samman' presented by Nirmala Smriti Sahityik Samiti on September 24, 2023.

Dr. Jyoti Sharma, Department of Hindi, served as the representative as the 'Cultural Ambassador of India' in the program organised by the Ministry of foreign affairs, on the occasion of the Croatia's former President Ms. Kolinda Grabar-Kitarović Visit at New Delhi on March 25, 2023.

Dr. Kanchan, Department of Hindi, was honoured with a national level award " Value Based Academic Achievement Award" presented by Indian Institute of Ecology and Environment on March 13, 2024

Students

Devendra Singh, B.A. (H) Hindi, III year, 2020-23 batch, Gold Medal for securing First Position at University of Delhi

Publications

Scopus Indexed Journals

Shaw, R., Prakash, P., Althagafi, I., Giri, N. G., & Pratap, R. (2023). 1, 3-Dianionic annulation of ketones with ketene dithioacetal: a modified route to 3-aryl/cyclopropyl-5-thiomethyl-phenols and 1-(methylthio)-9, 10-dihydrophenanthren-3-ols. RSC advances, 13(48), 34299-34307.

- Malik, P., Singh, S., & Singh, M. (2024). Water balancing actions of sodium and potassium chlorides for curcumin antioxidant activities in oil-water nanoformulations. *Journal of Molecular Liquids*, 398, 124266.
- Sarangale, Y., Bamel, K., & Purty, R. S. (2024). Identification of acetylcholinesterase like gene family and its expression under salinity stress in *Solanum lycopersicum*. *Journal of Plant Growth Regulation*, 43(3), 940-960.
- Withanage, W. K. N. C., Gunathilaka, M. D. K. L., Mishra, P. K., Wijesinghe, W. M. D. C., & Tripathi, S. (2023). Indexing habitat suitability and human-elephant conflicts using GIS-MCDA in a human-dominated landscape. *Geography and Sustainability*, 4(4), 343-355.
- Yadav, D., Tyagi, N., Yadav, H., James, A., Sareen, N., Kapoor, M., & Singhal, K. (2023). Effect of various morphologies and dopants on piezoelectric and detection properties of ZnO at the nanoscale: a review. *Journal of Materials Science*, 58(26), 10576-10599.
- Sood, U., Müller, M., Lan, T., Garg, G., Singhvi, N., Hira, P., ... & Lal, R. (2024). Amycolatopsis mediterranei: A Sixty-Year Journey from Strain Isolation to Unlocking Its Potential of Rifamycin Analogue Production by Combinatorial Biosynthesis. *Journal of Natural Products*, 87(2), 424-438.
- Mishra, A. K., Upadhyay, A., Mishra, P. K., Srivastava, A., & Rai, S. C. (2023). Evaluating geo-hydrological environs through morphometric aspects using geospatial techniques: A case study of Kashang Khad watershed in the Middle Himalayas, India. *Quaternary Science Advances*, 11, 100096.
- Kumari, P., Kumari, N., Mohan, C., Chinglenthoba, C., & Amesho, K. T. (2024). Environmentally benign approach to formulate nanoclay/starch hydrogel for controlled release of zinc and its application in seed coating of *Oryza Sativa* plant. *International Journal of Biological Macromolecules*, 257, 128278.
- Wijesinghe, D. C., Mishra, P. K., Withanage, N. C., Abdelrahman, K., Mishra, V., Tripathi, S., & Fnais, M. S. (2023). Application of GIS, multi-criteria decision-making techniques for mapping groundwater potential zones: a case study of thalawa division, Sri Lanka. *Water*, 15(19), 3462.
- Mittal, A., Nagpal, M., Vashistha, V. K., Arora, R., & Issar, U. (2024). Recent advances in the antioxidant activity of metal-curcumin complexes: a combined computational and experimental review. *Free Radical Research*, 58(1), 11-26.

UGC care list Journals

- Kumar, R., Nagar, S., Haider, S., Sood, U., Ponnusamy, K., Dhingra, G. G., ... & Lal, R. (2022). Monkey pox virus (MPXV): phylogenomics, host-pathogen interactome, and mutational cascade. *bioRxiv*, 2022-07.
- Narwal, M., Singh, R., Bhatti, K. S., Kaur, S. & Singh, K. (2023). Influence of Social Media on Consumer Purchase Decisions towards the Fashion Products. *Journal Of Humanities And Social Science*, 28(7), 88-98.
- Bhasin, N., & Kaur, H. (2023). Determinants of innovation for emerging market MNEs: evidence from the chemical industry in India. *International Journal of Business Innovation and Research*, 32(3), 343-368.
- Madan, R. Between Home and Work: The Many Cities of Refuge in Jyotirmoyee Devi's 'Shei Chheleta'.
- Malik, P., Singh, S., & Singh, M. (2024). Water balancing actions of sodium and potassium chlorides for curcumin antioxidant activities in oil-water nanoformulations. *Journal of Molecular Liquids*, 398, 124266.

Sarangle, Y., Bamel, K., & Purty, R. S. (2024). Identification of acetylcholinesterase like gene family and its expression under salinity stress in *Solanum lycopersicum*. *Journal of Plant Growth Regulation*, 43(3), 940-960.

Withanage, W. K. N. C., Gunathilaka, M. D. K. L., Mishra, P. K., Wijesinghe, W. M. D. C., & Tripathi, S. (2023). Indexing habitat suitability and human-elephant conflicts using GIS-MCDA in a human-dominated landscape. *Geography and Sustainability*, 4(4), 343-355.

Yadav, D., Tyagi, N., Yadav, H., James, A., Sareen, N., Kapoor, M., ... & Singhal, K. (2023). Effect of various morphologies and dopants on piezoelectric and detection properties of ZnO at the nanoscale: a review. *Journal of Materials Science*, 58(26), 10576-10599.

Web of Science

Garg, A., Karhana, S., Bano, A., Khan, I. A., Reeta, Nidhi, & Khan, M. A. (2023). Network pharmacology and molecular docking study-based approach to explore mechanism of benzimidazole-based anthelmintics for the treatment of lung cancer. *Journal of Biomolecular Structure and Dynamics*, 1-22.

Kumar, S., Ravi, R., Sahu, T., Jha, V. K., Baweja, R., & Jha, A. K. (2024). Metal-Catalyzed Oxidative C–H Bond Functionalization of 1, 4-Benzoxazinones. *Asian Journal of Organic Chemistry*, e202400028.

Kumar, R., Chhikara, B. S., Er Zeybekler, S., Gupta, D. S., Kaur, G., Chhillar, M., ... & Rahdar, A. (2023). Nanotoxicity of multifunctional stoichiometric cobalt oxide nanoparticles (SCoONPs) with repercussions toward apoptosis, necrosis, and cancer necrosis factor (TNF- α) at nano-biointerfaces. *Toxicology Research*, 12(5), 716-740.

Kant, N., Jayaraj, P., Sen, S., Rupani, H., Kumar, P., Dahiya, S., ... & Sengar, M. (2023). Establishment of patient-derived xenografts of retinoblastoma and choroidal melanoma on the avian chorioallantoic membrane. *Indian Journal of Ophthalmology*, 71(3), 977-982.

Chaudhary, J. K., Ahamad, N., & Rath, P. C. (2024). Mesenchymal stem cells (MSCs) from the mouse bone marrow show differential expression of interferon regulatory factors IRF-1 and IRF-2. *Molecular Biology Reports*, 51(1), 97.

Rani, N., Bamel, J. S., Garg, S., Shukla, A., Pathak, S. K., Singh, R. N., ... & Bamel, K. (2024). Linear mathematical models for yield estimation of baby corn (*Zea mays* L.). *Plant Science Today*, 11(1), 166-175.

Koranne, A., Turakhia, S., Jha, V. K., Gupta, S., Ravi, R., Mishra, A., ... & Jha, A. K. (2023). The Mizoroki–Heck reaction between in situ generated alkenes and aryl halides: cross-coupling route to substituted olefins. *RSC advances*, 13(32), 22512-22528.

Mohan, C., Kumari, P., Kumari, N., & Negi, A. (2023). Fabrication of Colored Polymeric Membrane Using Clay-Based Nano Pigments of Safranin O (SO) Dye. *Membranes*, 13(7), 619.

Research Projects

CCRUM (AYUSH) Government of India , Prof. Prabhavathi, Dr Kiran Bamel & Dr. Devender Singh Meena, ‘Development of DNA Barcodes for (UNANI) Medicinal Plants in India’, ₹ 19.8 lakhs

Indian National Science Academy (INSA), Dr. Deepika Yadav, A Comprehensive Study on Indigenous Zootherapeutic Practices and its contemporary status in Raji tribe of Uttarakhand., ₹ 12.4 lakhs

College Research Cell, Shivaji College, 1. Dr Neena Khanna (Dept. of Chemistry) 2. Dr Parveen Gahlyan (Dept. of Chemistry), Synthesis of rhodamine based chemosensors and their application in detection of toxic metal ions, ₹ 30,000

College Research Cell, Shivaji College, Dr Neetu Rani (Dept. of Mathematics), Mathematical Modelling for Volume Estimation of Guava (*PsidiumGuajava* L.), ₹ 30,000

College Research Cell, Shivaji College, 1. Dr Kiran Bamel (Dept. of Botany) 2. Dr Seema Talwar (Dept. of Botany), Impact of Elevated Temperature on the Seed Germination of Medicinal plants (*Catharanthus roseus* and *Trigonella foenum-graecum*), ₹ 30,000

Patents Filed/Granted

Dr. Abhijeet Mishra, Dept. of Biochemistry, Published National Patent entitled “Trans-differentiation of a subpopulation of whart on jelly derived mesenchymal stem cells (WJ-MSCS) in human astrocytes for possible treatment of neurodegenerative disorders” (Application No.202311032938 A, Publication date: 23/06/2023).

Dr. Abhijeet Mishra, Dept. of Biochemistry and Dr. Rang Nath Ravi, Dept. of Chemistry and Registered International (UK-Design Patent) for “Intelligent Surgical Microscope” (Registration no- 6304727, Grant date: 22/08/2023)

Dr. K.K.S. Gautam, Dept. of Computer Science and Krishan Kant Singh Gautam, Kapil Kumar patent granted entitled “A two-dimensional uniform linear array-based multiple signal classification system for the direction-of-arrival estimation”, March 21, 2023. Patent No. 202023100675.

Seminars Organized

“Practical Insights to Industry Ready Product Management”, March 21, 2024

“Paradigm Shift in Business and Economy: Challenges, Initiatives and Strategies in India Context”, January 24, 2024

“Should the environment matter in economics” on October 6, 2023

“Mental Health Amidst Competitive Exams”, October 31, 2023

“Menstrual Hygiene and Prevention of Cervical Cancer”, November 28, 2023

Conferences Organized

International Conference on Resurgent Bharat on the Global Canvas, 25-02-2024, ABRSM in collaboration with Shivaji College

Seminar/Conference Presentations (National / International)

Aparna Jain presented a paper in “International conference on Advances in pure and applied Mathematics” (ICAPAM -23) held at Shyam Lal College, University of Delhi, on February 9, 2024.

Ashwani Sharma presented a paper entitled “An Exploration of National and International Initiatives for Conservation and Preservation of Indigenous Knowledge” in International Conference Integrating

Indigenous Knowledge System in Higher Education held on 29-30 Nov, 2023 organized by the Department of Management Studies, BPS Mahila Vishwavidyalaya, Sonapat, Haryana, India.

Bishnu Satpathy presented a paper on India's Secular Democratic Tradition: A Creative Endeavour in the two-day International Conference on "Resurgent Bharat on the Global Canvas" Organized by Shakshik Foundation in Collaboration with NCPSL and Shivaji College, University of Delhi held on February 25-26, 2024

Dhara Singh presented a paper on "Educational Diplomacy and the Vision of Viksit Bharat: Cultural Connectivity and Knowledge Sharing between India and Southeast Asia" (Co-authored) presented at the International Seminar on India's Culture-based Foreign Policy in South and Southeast Asia organized by the Department of Political Science, University of Delhi on March 11-12, 2024.

Kiran Bamel presented two papers in National Conference on Advances in Pure and Applied Mathematics organised by PG & Research Department of Mathematics, Malankara Catholic College (MSU), Tirunelveli, Tamilnadu on September 22, 2023. Analysis of Non-destructive methods for fruit maturity assessment Non-destructive fruit volume prediction using linear modelling algorithms

Nitesh Kumar presented a paper titled "Investigating Attraction Zones in the Pseudo-Newtonian Photogravitational Four-Body Problem under the effect of Asteroids Belt" in the International Conference on advances on pure and applied mathematics organised by Shyam Lal College from February 8-10, 2024 (ICAPAM-24).

Rajneesh presented a Paper at अन्तर्राष्ट्रीय सम्मेलन - वैश्विक पटल भारत का पुनरुत्थान, titled "वैश्विक पटल पर रामायण" on February 26, 2024.

Rajinder Singh presented a paper on "Fintech in India: Emergence, Growth and Ways Ahead" presented at National Seminar on "Financial Sector Reforms and Sustainability Development" organized by Department of Commerce, Kurukshetra University, Kurukshetra on October 13, 2023.

Tarun presented a paper on "Vaishvik Patal par Bharat ka Punruththan: Hindi kavita ke vishesh sandarbh me " at the International Conference on Resurgent Bharat on the Global Canvas, organized by Shaikshik Foundation (ABRSM) in collaboration with the Shivaji College, 25-26 February, 2024.

Uttam Kumar Sinha, presented a paper entitled "On matrix-valued Gabor frames over locally compact abelian groups" in the International Conference on Advances in Pure & Applied Mathematics organized by Shyam Lal College, University of Delhi during February 8-10, 2024.

National/International MoUs Signed

Shivaji College is one of the 17 colleges to get approval to establish academic linkages in remote areas under the Vidya Vistar scheme. The college has signed an MoU for a period of five years with the following partner institutions and is making available its expertise, knowledge, and experience of the faculty members, library resources, and other academic facilities: MoU with Sikkim Government College, Burtuk, Gangtok, East Sikkim (737101), Sikkim and MoU with Himalayan Degree College (University of Jammu), Rajouri, Jammu and Kashmir (185131).

Placement Details (Number and percentage of students placed)

50

Placement Number of Companies Visited for Campus recruitment

100

Extension and Outreach Activities

The Department of Physics, Shivaji College is a network Institute of IIRS-ISRO Outreach Programme under which various programs were conducted during May 2023-March 2024: Program 125 – “Overview of Space Technology (Course in Hindi) was conducted from September 14-28, 2023; Program 126 – “Outreach Program on Overview of Global Navigation Satellite System.” was conducted from September 25 – October 06, 2023; Program 127 – “Overview of Geographical Information System.” was conducted from October 09-20, 2023; Program 128 – “Overview of Geo-computation and Geo-web services” was conducted from October 30 – November 03, 2023; Program 129 – “RS & GIS; Applications in Natural Resource Management” was conducted from November 06-17, 2023; Program 1036 – “One day workshop on Monitoring Forest Disturbances using Geospatial Technology” was conducted on October 04, 2023; Program 1034 – “Remote sensing-based data analytics in Agriculture” was conducted on 26 October, 2023 and Program 129 - Online training course on Geodata Processing using Python conducted by this institute during January 15-19, 2024

NSS unit as part of the "Swachhata Hi Seva" Campaign, organized various initiatives including a Tree Plantation Drive on NSS Day, a Swachhata Pledge, a Clean India Plog Run, a Nukkad Natak, etc. These activities, alongside efforts like Cloth/Jute Bag Distribution Drives and an “Ek Tareek, Ek Ghanta” Cleanliness Drive on Gandhi Jayanti, reflected dedication to promoting a cleaner and healthier environment. Under the "Meri Maati Mera Desh" campaign, the unit organized multiple events to mark the beginning of the Amrit Kal era. The Har Ghar Tiranga Campaign, Independence Day Celebrations, and Prabhat Pheri exemplified commitment to fostering patriotism and unity. These initiatives culminated in the Amrit Kalash Yatra and a Grand National event at Raisina Hill, attended by Honourable PM Narendra Modi and thousands of volunteers on October 31, 2023. The NSS Unit organized a seminar on Vigilance Awareness in collaboration with the Bank of Baroda, an Anaemia Screening Camp under the National Health Mission, National Voters' Day Pledge and Electoral Literacy Desk activities, and efforts to spread awareness about Mass Drug Administration for Lymphatic Filariasis Disease were done following Ministry of Health guidelines. The Angadan Mahotsav Pledge Program and participation was encouraged in Fit India - Swachhata Freedom Run 4.0.

Library Development

The College Library is fully automated with KOHA Software and is RFID enabled. Users can self-issue and return the Books and search the Book through Campus OPAC. The College Library was named “Bhushan Granthalaya” on February 19, 2024 on the occasion of ‘Shivaji Jayanti’ after the name of Bhushan the court poet of Shivaji Maharaj. Prof. Yogesh Singh, Vice-Chancellor, University of Delhi was the chief guest of the function and a section of books on Shivaji Maharaj was also inaugurated on this day. During the year 2023-24 the College Library has added 2042 Books and 10 CDs. The library has a total of 82597 Books and 744 CDs of various subjects. The library also subscribed 08 journals, 18 Magazines and 15 newspapers with multiple copies to meet the academic needs of the users and keep them abreast with latest development. The library also offers free access to a large number of electronic resources within the College Campus and remotely through Delhi University Library System, NLIST and DELNET. The library

also has 304 Braille Books and 33 CDs. In addition to this library also has 09 iPods and 33 Angels audio players.

Faculty Strength

Total: 201 (Two hundred and one) - (Professor – 19, Associate Professor – 43, Assistant Professor – 122, Ad-hoc- 2, Guest- 15)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 69.4 Cr.

Grant Utilized: ₹ 68.1 Cr.

SHRI RAM COLLEGE OF COMMERCE

Major Activities and Achievements

The college was awarded Malaviya Mission Teacher Training Centre (MMTTC) under the Malaviya Mission Teacher Training Programme(MMTTP) of the Ministry of Education, Government of India. Ranked as the Best College in Commerce Education in renowned surveys such as India Today-MDRA 2023 Best Colleges, The Week & Hansa Research Best Colleges Survey 2023, Open Magazine Best Colleges 2023 and Outlook – ICare Best Colleges Survey 2023. Project Report titled, “Consumer Protection and Legal Metrology in Ancient India: Ancient Thoughts and Wisdom” published by the Centre for Indian Economic History, Shri Ram College of Commerce under project sanctioned by Department of Consumer Affairs, Government of India, launched by Sh. Piyush Goyal, Minister of Commerce & Industry, Consumer Affairs & Food & Public Distribution and Textiles, Government of India on World Consumer Day. SRCC Sports Complex named as Arun Jaitley Multipurpose Stadium by Shri Jagdeep Dhankhar, Hon'ble Vice President of India in the august presence of Dr. Sudhesh Dhankar, Spouse of Hon'ble Vice President of India, Smt. Sangeeta Jaitley, Spouse of Late Shri Arun Jaitley and Prof. Yogesh Singh, Hon'ble Vice-Chancellor, University of Delhi.

Honours/Distinctions

Faculty

Dr. Sapna Bansal, Assistant Professor, Department of Commerce, Shri Ram College of Commerce, was awarded Best Educationist by Nigeria High Commission on September 6, 2023.

Student

Mr. Aditya Yadav, Awarded Vice-Chancellor's Gold Medal (Physically Challenged Student) for Commerce stream, B.Com. (Hons.) Batch of 2020-23

Mr. Jay Hiteshbhai Ambani, Youngest Delegate representing India for the Ship for World Programme organised by the Government of Japan at Japan, where he was sent as a delegate by Ministry of Youth Affairs and Sports, and Ministry of External Affairs, Government of India

Ms. Mansi Singh, Bronze Medal in Badminton at Maldives International Series 2023 held at Male, Maldives

Publications

Scopus Indexed Journals

Kaur, S., & Puri, V. (2023). Gauging Effects of Hypothetical Extraction Method on Transport Linkages in India. *Journal of Business Thought*, 14, 45–64.

Choudhury, P. K., Gill, A. S., & Kumar, A. (2024). What drives demand for private tutoring in secondary education? Evidence from India. *Journal of Social and Economic Development*, 1-24.

Singh, D., Jha, A., & Malik, G. (2024). The impact of self-efficacy and trust: unraveling the role in fostering continued usage of mobile banking apps in India. *Academy of Marketing Studies Journal*, 28(3), 1-13.

Rani, M., Sharma, A. K., Tiwari, S. K., & Panigrahi, A. (2024). Inverses of r-primitive k-normal elements over finite fields. *The Ramanujan Journal*, 63(3), 723-747.

Paridhi, Saini, N., & Shri, C. (2024). Environmental, social, and governance reporting adoption factors for sustainable development at the country level. *Environment, Development and Sustainability*, 1-40.

Gill, K., Kumar, H., & Singh, A. K. (2023). Evaluating the efficiency of the global cryptocurrency market. *Indian Journal of Finance*, 17(11), 8-25.

Kapoor, D., & Jain, A. (2024). Sustainable tourism and its future research directions: a bibliometric analysis of twenty-five years of research. *Tourism Review*, 79(3), 541-567.

Aggarwal, S. (2024). A Study of the Relationship Between Organizational Culture and Psychological Capital and Its Impact Using Systematic Literature Review. *Journal of Human Values*, 30(2), 105-118.

Singhania, M., Gupta, S., Chadha, G., Braune, E., Dana, L. P., & Idowu, S. O. (2023). Mapping 26 years of climate change research in finance and accounting: a systematic scientometric analysis. *Environmental Science and Pollution Research*, 30(35), 83153-83179.

Journals

Professor Simrit Kaur and Dr. Naveen Mittal .(2023). *Business Analyst Journal*. Emerald Publishing Limited , 44(1), 50

Professor Simrit Kaur and Dr. Naveen Mittal .(2023). *Business Analyst Journal*. Emerald Publishing Limited , 44(1), 139

Research Projects

Dr. Abhay Jain, Associate Professor, Neural Basis of Financial, Economic and Marketing Decision Making: An Experimental Study, Indian Council of Social Science Research, New Delhi, ₹ 17.5 lakhs

Prof. Simrit Kaur, Research project on "Consumer Protection & Legal Metrology in Ancient India: Thoughts and Wisdom", Department of Consumer Affairs, Ministry of Consumer Affairs, Food and Public Distribution, Government of India, ₹ 10.0 lakhs

Delhi School of Economics, Prof. Simrit Kaur, Research Project on cluster theme of Financial Inclusion wherein Research Study on Impact of Reduction in Taxation on Essential Commodities was done, Nil

Patents Filed/Granted

Two National patents

Vipin Kumar Rathi, Vinay Chaudhary. Blockchain Defined Multi-domain Orchestrator. Patent No. 525768. Granted for 20 years w.e.f October 17, 2018

Vipin Kumar Rathi, Rahul Prasad, Dinkar Jain, Dr Bhawana. Hybrid Post-Quantum Encryption (PQE) on Private/Public Permissioned blockchain Wallets on Decentralised Identity (DID) ecosystem. Patent no: 470072. Granted for 20 years w.e.f. March 25, 2023

Seminars Organized

“Developing Knowledge, Research and Competencies on Economic History and Economic Thoughts of India: Ancient Perspectives”, July 15, 2023

“One-Week Faculty Development Programme on Fundamentals of Research, Systematic Literature Review and Bibliometric Analysis”, August 11, 2023

“Global Economy and the Impact on India”, May 09, 2023

“National Education Policy (NEP)”, June 20, 2023

Prof. Gita Gopinath, First Deputy Managing Director, IMF, Self-Financed, Interaction Session with Prof. Gita Gopinath, September 11, 2023

Conferences Organized

National Conference on “Business Transformation: Challenges and Opportunities for Sustainable Growth”, Indian Council of Social Science Research, New Delhi, November 04, 2023

Seminar/Conference Presentations (National / International)

Avnish Kumar Sharma presented a paper titled “Primitive normal pairs with prescribed norm and trace” at International Conference on Pure and Applied Mathematics (ICPAM-2023) organised by Department of Mathematics, NIT Jalandhar & MNIT Jaipur on October 26-28, 2023 in an online mode.

Charu Shri presented a paper titled “Exploring the hierarchical structure of enablers affecting Indian banks’ financing decision” at Research Conclave organised by Bhavan’s S. P. Jain institute of Management and Research, Mumbai, India sponsored by Yes Securities (India) Limited and SBI capital Markets Limited in Mumbai in July, 2023

Harish Kumar presented a paper titled, “Understanding the role of Demographical Development in developing Comparative Advantage in Services: Evidence from India” at the Biennial International Conference on Vision India @2047: Global Leader in Economic Growth, Sustainability and Decarbonisation organised by Sri Guru Gobind Singh College of Commerce on March 21-22, 2024.

Kanika Gandhi presented a paper titled ‘Problematising Literary Studies: Role of Humanities and Literature in Fostering Empathy and Critical Thinking Strategies’ at International Conference on The Humanities Today: Global and Social Responsibilities organised by IIS University, Jaipur on February 16-17, 2024.

Kinneri Jain, presented a research paper titled “Artificial Intelligence and Sustainability in India: The Road Ahead” at International Conference of Multinational Enterprises and Sustainable Development (MESD’2023) Association organized by Department of Commerce, Faculty of Commerce and Business, Delhi School of Economics, University of Delhi on November 29-30, 2023.

Latika Bajetha, presented a Case Study (Paper Presentation) on “Operational Excellence Through Implementation of TPM In A Petrochemical Company- A Case Study” at 26th Annual International Conference of the Society of Operations Management-2023 at Indian Institute of Management-Shillong on December 14-16, 2023.

Palak Kanojia, presented a paper titled “Use of Phenomenology in Consumer Behaviour Studies: Experiences with Digital Payment Systems” at ICSSR sponsored National Seminar on Advancements in Research Methodology organised by Khalsa College for Women, Amritsar on January 24-25, 2024.

Rituranjan, presented a paper titled ‘Business As Usual Approach: The Main Obstacle to Sustainable Development’ at the ICSSR Sponsored National Conference on Business Transformation: Challenges and Opportunities for Sustainable Growth organised by the Research Development Cell of SRCC, Delhi on November 04, 2023.

Sapna Bansal, presented a paper titled “Total Factor Productivity and the Foreign Presence in Selected Indian Automobile Firms” at International Conference on Economic Growth and Environment Sustainability organised by Chaudhary Charan Singh University, Meerut on November 29-30, 2023.

Simrit Kaur, Principal, Dr. Monika Gaur and Ms. Kamaldeep Kaur, presented a paper titled ‘Taxation and Welfare State in Ancient India: Implications for Contemporary Public Policy’ in Two Day Online Workshop on Developing Knowledge, Research and Competencies on Economic History and Economic Thoughts of India: Ancient Perspectives organised by the Centre for Indian Economic History, SRCC, Delhi on July 14-15, 2023.

National/International MoUs Signed

MoU with National Small Industries Corporation -Technical Centre, Okhla on January 05, 2024 for providing skills training programmes in the latest in-demand skills that would benefit working professionals, corporate employees or entrepreneurs by up-grading their expertise. The candidates would be introduced to various technology and business skills. Training would be conducted in contemporary courses such as Use of ChatGPT and Artificial Intelligence in Business, Marketing and commerce.

MoU with Kalam Centre in July 2023 on aspects of research of Indian Economic History, addressing multi-faceted challenges to its communication and dissemination through technology, providing a platform to experts for discourse, and dissemination in the form of events, talks, digital branding, social media, reports and seminars.

MoU with Trumio Inc., a leading AI driven marketplace and virtual work bench platform with February 27, 2024, to provide valuable work experience and internship opportunities to SRCC students.

Other Inter-Institutional Collaboration

Other Inter-Institutional MoUs are as follows: with Miranda House, University of Delhi and Utrecht Business School Collaborative, Netherlands for organising the SRCC- Miranda House- Utrecht Business School Collaborative (Outgoing) Programme from June 12-16, 2023, the SRCC- Miranda House- Utrecht Business School Collaborative (Outgoing) Programme from January 22-28, 2024 and SRCC- Miranda House- Utrecht Business School Collaborative (Incoming) Programme from January 29-31, 2024; with Institute of Life Long Learning (ILL), University of Delhi for organising a One-Week Faculty Development Programme (FDP) on "Fundamentals of Research, Systematic Literature Review and Bibliometric Analysis" in the SRCC Campus from August 7-11, 2023; with Yuva Manthan for organising a SRCC- OIP Y20 Yuvamanthan Model G20 Summit 2023 on September 01, 2023; with International Monetary Fund (IMF) for organising an Interaction Session with Prof. Gita Gopinath, Deputy Director, IMF on September 11, 2023; with Gedu College, Bhutan for organising the OIP-SRCC-RUB Indo-Bhutan (Outgoing) Exchange Programme from October 19-22, 2023 and OIP SRCC-GCBS Indo Bhutan (Incoming) Exchange Programme from February 06-10, 2024; with ISKCON for Webinar on Digital Detoxification on November 01, 2023; with Snap INC for organising an Interaction Session with Snap Inc on November 08, 2023; with University of California, Los Angeles (UCLA) for organising a SRCC - OIP - University of California Los Angeles Virtual Programme on December 05, 2023; with EADA Business School, Spain for a Collaborative Session on February 07, 2023. with UGC-MMTTC, JNU for a "Capacity Building Programme for KRPs in Single Major Subject Pattern in Commerce" from February 8-19, 2024. with Sant Nirankari Foundation for a Water Conservation Seminar on February 22, 2024; with United States-India Educational Foundation for an IEA Seminar on March 11, 2024; with BSE Institute Limited for launching an Add-on Course on Financial Modelling; with Skilled Sapiens for launching an Advanced Course in Management Consulting.

Students under exchange program (Inbound and Outbound)

4 Incoming Programmes-Number of Students-91

Placement Details (Number and percentage of students placed)

330

Placement Number of Companies Visited for Campus recruitment

70

Extension and Outreach Activities

The extension and outreach activities conducted during 2023-24 are as follows: Training Programme for Newly Recruited Officers of Indian Corporate Law Service (ICLS) at ICLS Academy under MoU with ICLS Academy, Indian Institute of Corporate Affairs, Ministry of Corporate Affairs, Government of India; Connecting Dream Foundation (CDF-SRCC Chapter): Project Aarogya, Project Arpan, Project Dream Library, Project Rivayat, Project Naqsh; National Service Scheme (NSS) SRCC: Project Sanskaar, Project Vishwas, Organ Donation; ENACTUS, SRCC Chapter: Project Virasat, Project Leher, Project Amal; Centre for Green Initiatives, CGI SRCC: Collaborations with Lung Care Foundation, World Wildlife Fund

and Vittshala, SRCC: Project Asha, Project Sahay, Project Umeed, Project Khushhali, Project Uttara, Project Sashakt, Project Samarth, Project Utthaan, Project Pahal.

Library Development

Latest Version of Libsys (Libsys 10) installed in the Library to facilitate better and more efficient library management in the College. OPAC-Web introduced in the Library to permit anywhere online search of books, articles and resources to faculty members/students/users etc. Prowess-Web introduced in the Library to permit anywhere access to registered faculty members/users. Over 500 Books added in the Academic Year 2023-24.

Faculty Strength

Total: 192 (One hundred and ninety two) - (Professor – 11, Associate Professor – 33, Assistant Professor – 79, Guest- 69)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 39.9 Cr.

Grant Utilized: ₹ 39.9 Cr.

SHYAM LAL COLLEGE

Major Activities and Achievements

Shyam Lal College (SLC) has achieved significant milestones, earning an A++ accreditation from NAAC and securing the 68th rank in NIRF. It actively participated in various national celebrations, focusing on themes like "Global South" and "Vasudhaiva Kutumbakam", showcasing Bharat as a global leader. SLC excelled in research with over 200 publications in prestigious journals, books and book chapters. The college has 5 major research projects from agencies like ICSSR, AICTE and MoE. SLC has recruited more than 100 new faculty, enhancing the academic environment. Additionally, the college conducts 15 Add on courses for skill development among the students.

Honours/Distinctions

Faculty

Prof. Rabi Narayan Kar, Principal, SLC currently serves as Visitor's Nominee at the Central University of Odisha. He is also working as a Member of Indian Council of Social Science Research (ICSSR), the Executive Council of the Central University of Rajasthan, and the Executive Committee of CPRHE at NIEPA. He is also the distinguished Faculty Fellow at Center for International Business Education and Research (CIBER), Scheller College of Business, Georgia Tech, USA.

Prof. Kusha Tiwari, Department of English, currently serves as the Visitor's Nominee at Babasaheb Bhimrao Ambedkar (Central) University, Lucknow, since 2022. Additionally, she has been appointed as

the UGC Nominee to the Finance Committee of Manav Rachna International Institute of Research and Studies.

Dr. Vinod Kumar, Department of Mathematics, was honored with the "2022 VehCom Best Paper Award" and received a prize of US \$500 for his paper titled "RSEAP: RFID based secure and efficient authentication protocol for vehicular cloud computing." This recognition was bestowed by the prestigious USA-based Q1 and SCIE journal "Vehicular Communications, Elsevier" on December 10, 2023.

Dr. Pranav Dass, Department of Computer Science, was honored with the Outstanding Professor Award during the International Conference on Organizational Innovation (ICOI 2023). This event was hosted by Suan Sunandha Rajabhat University in Bangkok, Thailand, from July 25-27, 2023.

Dr. Kanika Solanki, Department of Chemistry, received the Best Poster Presentation Award for her presentation titled "Surface-modified, hierarchical flower-shaped magnetic sorbent for rapid and selective uptake of Pb²⁺ ions from environmental samples" at the International Conference and Workshop on Twelve Principles of Green Chemistry and UN-SDGs on November 9-10, 2023 organized by Green Chemistry Network Centre, Hindu College, University of Delhi.

Student

Abhinav, Prachi, Vishakha and Tushar, B.Sc. (H) Chemistry III year, won Best Poster Presentation Award in International Conference and Workshop on Twelve Principles of Green Chemistry and UN-SDGs presided by the Founders of Green Chemistry held on 9-10th Nov 2023 at Hindu College, University of Delhi ((under the supervision of Prof. Ashu Gupta, Dr. Radhika Gupta and Dr. Yukti Monga).

Vishal, BA Prog. 2nd Year, Selected for Delhi University Baseball Team to Participate and secured 3rd Position in All India University Baseball Championship 2023-24 at Royal Global University, Guwahati; and selected for Delhi Baseball Team to participate in Senior National Championship 2023-24 at Sangrur, Punjab.

Yash Thakur, BA. Prog. 3rd Year, Selected for Delhi Hockey Team to participate in Senior National Men Hockey Championship 2023-24 held at Chennai; and selected for Delhi University Hockey Team to participate in North Zone Inter University Championship 2023-24 at The Maharaja Bhupender Singh University, Punjab

Kunal, B.Sc Hons. Mathematics 3rd Year, selected for Delhi University Baseball Team to Participate and secured 3rd Position in All India University Baseball Championship 2023-24 at Royal Global University, Guwahati.

Vikram Sharma, BA Prog. 3rd Year, selected for Delhi University Hockey Team to participate in North Zone Inter University Championship 2023-24 at The Maharaja Bhupender Singh University, Punjab

Publications

Scopus

Kar, R. N., & Tiwari, K. (2024). Is the new normal driving sustainability: evidence from Indian wedding industry. *International Journal of Innovation and Sustainable Development*, 18(1-2), 91-105.

Hossen, M. A., Rahman, M. M., Nahid, M. N. A., Islam, R., Banshal, S. K., Gupta, V., & Dass, P. (2023). Impact on GDP and the stock market during pandemics or epidemics of 21st century. *Journal of Interdisciplinary Mathematics*, 26(5).

- Kumar, K., Kumar, V., Seema, Sharma, M. K., Khan, A. A., & Idrisi, M. J. (2024). A Systematic Review of Blockchain Technology Assisted with Artificial Intelligence Technology for Networks and Communication Systems. *Journal of Computer Networks and Communications*, 2024(1), 9979371.
- Jain, M., Jain, T., & Jain, P. (2023). Revisiting the nexus between economic growth and environment health: an empirical study on 180 nations. *Environmental Science and Pollution Research*, 30(58), 122550-122579.
- Sharma, S., Monga, Y., Gupta, A., & Singh, S. (2023). 2-Oxindole and related heterocycles: synthetic methodologies for their natural products and related derivatives. *RSC advances*, 13(21), 14249-14267.
- Kandpal, B. M., Tyagi, R., Tehlan, S., Singh, S., Gupta, R., Monga, Y., & Gupta, A. (2024). 4-Amino-3-hydrazino-5-mercapto-1, 2, 4-triazole (PURPALD) in organic chemicals analysis: Distinguishing aldehydes and ketones. *Journal of Integrated Science and Technology*, 12(1), 709-709.
- Gupta, A., Sidhwani, I. T., Gupta, R., Monga, Y., & Sharma, R. K. (2023). Sunlight-driven N-acetylation of anilines: a green chemistry approach. *New Journal of Chemistry*, 47(37), 17229-17233.
- Ambala, S., Thumma, V., Mallikanti, V., Aitha, S., Matta, R., & Pochampally, J. (2023). Design, Synthesis, and Cytotoxicity of Some New Benzimidazole-Piperazine Conjugate Analogues against Human Breast Adenocarcinoma. *ChemistrySelect*, 8(31), e202302393.
- Gupta, A., Gupta, R., Arora, G., Yadav, P., & Sharma, R. K. (2023). Heterogeneous Catalysis under Continuous Flow Conditions. *Current Organic Chemistry*, 27(12), 1090-1110.
- Jain, N., Gupta, N., Agarwal, A. K., Sharma, M., & Datta, S. (2024). A Deep Learning-Based Model for the Detection and Tracking of Animals for Safety and Management of Financial Loss. *Journal of Electrical Systems*, 20(2s), 14-20.
- Sardana, D., Alam, P., Yadav, K., Clovis, N. S., Kumar, P., & Sen, S. (2023). Unusual similarity of DNA solvation dynamics in high-salinity crowding with divalent cations of varying concentrations. *Physical Chemistry Chemical Physics*, 25(40), 27744-27755.
- Solanki, K., Sharma, S., Rana, P., Kaushik, B., Yadav, S., Dixit, R., ... & Sharma, R. K. (2023). A structurally engineered flower shaped magnetic hierarchical sorbent for rapid and selective uptake of Pb²⁺ ions from water samples. *Materials Chemistry Frontiers*, 7(19), 4482-4496.
- Yadav, O. S., Chaudhary, R., & Gupta, A. (2024). Synthesis of green inhibitor for mild steel corrosion in a sulphuric acid medium. *Portugaliae Electrochim. Acta*, 42(5), 355-373.
- Mittal, A., Nagpal, M., & Vashistha, V. K. (2023). Recent Advances in the Pharmacological Activities of Glycyrrhizin, Glycyrrhetic Acid, and Their Analogs. *Revista Brasileira de Farmacognosia*, 33(6), 1154-1169.
- Mishra M.K., Pattanayak M., Shankar A.U., Murthy G V K, Singh S. (2023). Impact of artificial intelligence on human behaviour & well-being-an empirical analysis. *Tuijin Jishu/Journal of Propulsion Technology*, 44(3), 1393-1401.
- Mittal, A., Nagpal, M., Chahal, V., & Vashistha, V. K. The electronic, structural and nonlinear optical properties of licochalcone L in the aqueous solution and gaseous phase: A DFT study. *Turkish Computational and Theoretical Chemistry*, 8(2), 48-60.

- Gupta, S., Patel, N., Kumar, A., Jain, N. K., Dass, P., Hegde, R., & Rajaram, A. (2023). Adaptive fuzzy convolutional neural network for medical image classification. *Journal of Intelligent & Fuzzy Systems*, (Preprint), 1-17.
- Vashistha, V. K., Bala, R., Mittal, A., Pullabhotla, R. V., Yadav, S., & Verma, N. (2024). Stereoselective analysis and enantioseparation of isoproterenol in spiked human plasma. *Chemical Papers*, 78(1), 613-622.
- Thumma, V., Mallikanti, V., Matta, R., Dharavath, R., & Jalapathi, P. (2024). Design, synthesis, and cytotoxicity of ibuprofen-appended benzoxazole analogues against human breast adenocarcinoma. *RSC Medicinal Chemistry*, 15(4), 1283-1294.
- Monga, Y., Sharma, S., Singh, S., & Gupta, A. (2024). Biochar, Clay, Zeolites, and Microorganism-based Methods for Remediation of Heavy Metals. *Current Green Chemistry*, 11(1), 2-11.
- Vashistha, V. K., Bala, R., Pullabhotla, R. V., & Mittal, A. (2023). Enantiomeric separation of ketoprofen using Frovatriptan as a chiral derivatizing reagent. *Separation Science Plus*, 6(9), 2300087.
- Rana, P., Saini, K. M., Kaushik, B., Solanki, K., Dixit, R., & Sharma, R. K. (2023). Unleashing the photocatalytic potential of a noble-metal-free heteroleptic copper complex-based nanomaterial for an enhanced aza-Henry reaction. *Nanoscale*, 15(34), 14007-14017.
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- Gupta, A., Kumar, V., Mittal, S., & Sharma, R. K. (2023). Design, Synthesis and Application of Chemically Modified Amberlite XAD-2 for Separation and Preconcentration of Pb (II). *ChemistrySelect*, 8(1), e202202966.
- Mittal, A., Nagpal, M., Vashistha, V. K., Arora, R., & Issar, U. (2024). Recent advances in the antioxidant activity of metal-curcumin complexes: a combined computational and experimental review. *Free Radical Research*, 58(1), 11-26.
- Kumar, V. (2023). Rsfvc: robust biometric-based secure framework for vehicular cloud networking. *IEEE Transactions on Intelligent Transportation Systems*.
- Vashistha, V. K., Bala, R., Mittal, A., & Pullabhotla, R. V. (2023). Development of a liquid chromatographic method for enantioseparation of Eflornithine using (S)- α -ethyl benzylamine as a chiral derivatizing agent. *Separation Science and Technology*, 58(12), 2138-2144.
- Vashistha, V. K., Mittal, A., Bala, R., & Pullabhotla, R. V. S. R. (2023). Triazole Moieties as Potent Drug Molecules: Synthetic Approaches and Application as Promising Candidates as Anticancer Agents (A Review). *Russian Journal of Bioorganic Chemistry*, 49(Suppl 1), S13-S30.
- Vashistha, V. K., Bala, R., Das, D. K., Mittal, A., & Pullabhotla, R. V. (2024). Transition Metal Nanoparticles As Promising Antimicrobial Agents. *Surface Review and Letters (SRL)*, 31(04), 1-23.
- Vashistha, V. K., Mittal, A., Bala, R., DASa, D. K., & Singh, P. P. (2023). Synthesis, Characterization, Electrochemical And Antibacterial Studies Of Mn⁴-type Macrocyclic Complexes Of Ni (II). *Revue Roumaine De Chimie*, 68(9), 447-452.

Vashistha, V. K., Sethi, S., Mittal, A., Das, D. K., Pullabhotla, R. V., Bala, R., & Yadav, S. (2024). Stereoselective analysis of chiral pesticides: a review. *Environmental Monitoring and Assessment*, 196(2), 153.

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Kar, R. N. and Kaur, A. (2023). Socially Responsible Investing – Recent Developments in India. *Chartered Secretary*, 53(6), 70-74.

Kar, R. N., & Kaur, A. (2023). Do Disclosures Drive Socially Responsible Investing?. *Paradigm*, 27(1), 7-26.

Yadav, R. (2023). How Well Do You Manage Your Finances. *Journal of Economics*, 27(11).

Yadav, R. (2023). Exploring Factors Influencing Consumer Green Buying Decisions through Social Media. *Journal of Economics*, 27(11).

Patents Filed/Granted

01 and Dr. Leena Singh, Department of Computer Science, Urban Flat-Rooftop Inflatable Rainwater Conservation System (Patent No. 512906, Application No. 202011008995 dated 03/03/2020), Granted on 20.2.2024.

01 and Dr. Leena Singh, Department of Computer Science, An Electric Solution for Killing Locust (Patent No.524421, Application No. 202011024149 dated 29/06/2020), Granted on 13.3.2024.

01 and Dr. Sudhir Yadav, Department of Mathematics, A network control method for traffic engineering using graph (Application No. 202311055650 dated 19/08/2023), Granted on 15.09.2023.

01 and Dr. Saubhagyalaxmi Singh, Department of Mathematics, Deep Learning Models to Study and Analyse the ChatGPT and its Impact on Different Fields (Patent No. 202321043593, Publication Date 04.08.2023).

01 and 5. Dr. Nidhi Jain, Department of Commerce, Evaluation method and model for impact of non-performing assets on bank performance (Patent Type: International, Application No. : 202311062265 A, Publication Date: 13.10.2023)

Seminars Organized

“Smart office administration @ 3: effective leadership for Viksit Bharat”, January 11, 2024

“Introduction to Saral Manak Sanskrit”, March 22, 2024

‘Faculty Development Programme (FDP) on Integrating Sustainability in Higher Education’, December 16, 2023

“Faculty Development Programme (FDP) on Recent Advances in Basic and Applied Sciences”, December 16, 2023

“Introduction to Fluorescence Spectroscopy”, on November 22, 2023

Conferences Organized

International Conference on “International Business and Economics of Sapt Sindhu -A Historical Transformation and Global Impact”, ICHR, September 24, 2023,

International Conference on Advances in Pure and Applied Mathematics (ICAPAM)- Vision India @ 2047, February 08, 2024

International Conference of Multinational Enterprises and Sustainable Development Association on Sustainable Business Strategies, Models and Values: Role of MNE Strategy, National Policies and Global Partnerships, ICSSR, PHD Chamber of Commerce and Industry, November 29, 2023

Seminar/Conference Presentations (National / International)

Rabi Narayan Kar contributed extensively to educational discourse, presenting at multiple prestigious events. Notable engagements include a keynote address at the ICSSR sponsored National Conference on NEP 2020 at Central University of Jharkhand, Ranchi (December 7-8, 2023), and serving as a resource person at various NEP-related conferences, including those sponsored by ICHR at Gautam Budh University (February 6-7, 2024) and University of Hyderabad (January 19, 2024). Additionally, he presented at the National Summit of Institutional Leaders at Lucknow University (February 15-17, 2024), on innovation and leadership in educational administration.

National/International MoUs Signed

MoU With Superpro.ai for Vayam App on February 05, 2022 for 2 Years; A3 Charge Private Limited Energy management on June 14, 2022 for 3 Years; Hallparty for Administration of student ID cards on September 23, 2022 for 5 Years; Kalahandi University for Sharing of knowledge and facilities under Vidhya Vistar scheme on September 02, 2021 for 3 Years; MoU ICAI to expand the learning horizon for the students and faculties on August 10, 2023 for 3 years. 3 Years; MoU with Azure Solar Solution for Energy Management on June 01, 2016 for 24 Years; MoU with Mahatma Hansraj faculty development centre Hansraj College for Conduction of FDP on September 10, 2021-Till Date; MoU with Institute of Eminence for Spoken English course on August 07, 2021-Till Date; MOU with NIELIT for Training Programs on December 27, 2021 -Till Date; MoU with KPMG business ethics grant for Business Ethics Grant on June 22, 2020-Till Date)

Other Inter-Institutional Collaboration

SLC has collaborated with Indian Council for Social Science Research (ICSSR); Indian Council of Historical Research (ICHR); All India Council for Technical Education (AICTE); National Institute of Electronics and Information Technology (NIELIT); National Institute of Educational Planning and Administration (NIEPA) and many more to conduct activities for the benefit of students and staff alike.

Placement Details (Number and percentage of students placed)

352

Placement Number of Companies Visited for Campus recruitment

31

Extension and Outreach Activities

SLC is actively sensitive to its Institutional Social Responsibility and promotes institution neighborhood community initiatives and outreach programs through its various activities that broadly fall under NCC/NSS/WDC/EOC/Sports. The community outreach are facilitated through NCC, NSS, Women

Development Cell, Centre for Holistic Development, Centre for Industry Interaction and Skill Development, Ambedkar Study Circle, Gandhi Study Circle etc. which organize events dedicated towards community service like blood donation camp, tree plantation drive, Save Yamuna Campaign, gender sensitization, identity discourses, moral education etc. to enhance the sense of community feeling and citizenship among the students. SLC has also adopted Shahdara mandi and regularly conducts cleanliness drives, switch over to cashless trading and plastic free campaigns. The College promotes sports and games in the trans-Yamuna region of Delhi by providing opportunities and best coaching facilities to the young and talented players from low-income groups or underprivileged sections of society. The College has conducted various surveys in the past, including the survey as part of the project ‘Old Age Homes in Delhi – Understanding the Challenges Faced by Them and Their Contribution to the Society’. The primary objective of this project is to have a closer view at the old age homes functioning in Delhi in order to assess the problems and challenges that these institutions are facing. NSS volunteers of the College visit slum areas and spread awareness about cleanliness in collaboration with NGOs. The tree plantation activities organized by the College are aimed at improving the air quality in and around the College, as well as for creating awareness about protection of environment. Most of the activities of the Equal Opportunities Cell such as remedial classes and Spoken English classes for students from under-privileged communities and facilities for differently abled also largely benefit the students from surrounding areas. The College participates in all national initiatives aimed at promoting good citizenship such as cleanliness drive, skill and entrepreneurship development initiatives, “Make in India” campaign, etc. The College has set up Centre for Skill Development following the launch of this programme by the Union Government. SLC has adopted 5 villages under UBA project under MoE, GOI. The NSS of the College also regularly organizes “Nirbheek” – One week Women self defense camp for girl students. The UBA team and NSS team of the College has already conducted cleanliness drives in Yamuna Bazaar Ghat no 21. The Development and Maintenance of Ghat No.-21 has been done along with repairing, beautification, restructuring, painting and colouring work. The National Service Scheme of Shyam Lal College in collaboration with the Eco Club, SAP, and UBA organised a “HAR GHAR TIRANGA RALLY” on 14th August 2023 on the occasion of Independence Day. NSS unit participated in a G20 Mock Summit cum Exhibition held by Shyam Lal College. The College also provides fee concession, financial aid, book aid, awards and prizes to students from underprivileged sections of society. NSS unit in collaboration with AIIMS Delhi organized a blood donation drive on October 31, 2023. “Winter Clothes Donation drive also was conducted from November 29 November to December 09, 2023. The National Service Scheme (NSS) organized a highly informative and engaging event on Cyber Security Awareness. The event aimed to educate the students about the importance of cyber security in today's digital age and empower them with knowledge and skills to protect themselves online.

Library Development

Our college Library has a rich collection of over 57,000 books covering the gamut of different disciplines. E-Resources facility is provided through DULS, N-LIST and DELNET to its users to access the world's best Databases, e-Journals, e-Books etc. The Library is automated. This year (2023 – 2024) under report, 538 books were added to our collection in various subjects. The college Library also provides support services to visually impaired students by providing Angle Pro device.

Faculty Strength

Total: 157 (One hundred and fifty seven) - (Professor – 09, Associate Professor – 32, Assistant Professor – 116)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 66.9 Cr.

Grant Utilized: ₹ 65.3 Cr.

SHYAM LAL COLLEGE (EVENING)

Honours/Distinctions

Faculty

Dr. Sanjeev Kumar Sharma, has written & published chapter in a book “Delhi-2023 of Changing Democracy, Transforming Policy” under the publication of Haranand Publication Pvt. Ltd. The title of the chapter Electoral Politics & Leadership in Delhi, summarise the leadership impact on voting behaviour in Delhi. This Book is based on survey outcome of Delhi election, conducted by Center for Global studies (C.G.S) University of Delhi, and various colleges of Delhi University students including Shyamlal College (Eve.) participated in this Delhi 2020 Samiksha under the guidance of Director, Prof. Sunil K. Choudhary. This book was inaugurated by honorable minister & MP Smt. Meenakshi Lekhi on 27 Feb. 2024 in centre of Global studies (C.G.S), University of Delhi.

Research Projects

A Major Research Project titled " Machine Learning Framework for Financial Fraud Forecasting" as Co-PI Prof. Aditya P. Tripathi, Dept. of Commerce with RFRF and others by Indian Council of Social Science Research (ICSSR), Ministry of Education, Government of India) since March 25,2022. Sanctioned Amount: ₹.5.5 lakhs

Conferences Organized

ICSSR sponsored XXV Annual International Conference “World peace: an essential ingredient for survival of humanity & the planet” on January 6-7, 2024 organized by Delhi School of Professional Studies and Research (Affiliated to Guru Gobind Singh Indraprastha University, Delhi), New Delhi, India in collaboration with Deen Dayal Upadhyaya College DU; Shyam Lal College (E), DU; Trinity University of Asia, Quezon City, Philippines; and Divine International Group of Institutions, Gwalior.

Seminar/Conference Presentations (National / International)

Aditya P. Tripathi, Invited Lecture on

“Capacity Building Programme for KRPs in Single Major Subject Pattern in Commerce” organized by UGC-MMTTC, Jawahar Lal Nehru University (JNU) in collaboration with Commissionerate of Collegiate Education (CCE), Government of Andhra Pradesh on February 13, 2024

“Exploring the Essence: Indian Economic Thought in Contemporary Perspectives” organized by Directorate of International Affairs in collaboration with University School of Management Studies & Indian Council of Social Science Research on February 23, 2024

“Skill Development” organized by Centre for Professional Development in Higher Education (CPDHE), UGC - Malaviya Mission Teacher Training Centre (MMTTC), University of Delhi on February 26, 2024

“Skill Development” at MMTTC, Shri Ram College of Commerce (SRCC), University of Delhi for the NEP Orientation and Sensitization program on 10th April 2024.

Resource person for UGC-CEC (Consortium for Educational Communication) to deliver series of Lectures on the topics of recent relevance including IKS and NEP to name a few. He is being invited for the same since 2020

Amit Singh presented a research paper titled "Sant Raidas ki Vani Mein Samajik Chintan" in a National Conference jointly organised by Janjatiya Boli Evam Lok Kala Akademi, Madhya Pradesh and Bhartiya Hindi Parishad, Prayagraj held at Janjatiya Sangrhalaya, Bhopal on July 29-30, 2023.

Bharti, presented a paper on ‘Energy Variability and Transient Chaos in Ueda Oscillator’ in the International Conference on Advances in Pure & Applied Mathematics (ICAPAM) organized by Shyam Lal College, University of Delhi on February 8-10 2024

Suresh Kumar presented a paper on "Financial sector reforms and Sustainable development in the National Seminar organised by K.U.K. on dated October 13, 2023

Suresh Kumar presented a Paper on "Vasudhaiva Kutumbakam: Srimad Bhagavad Gita and global Unity” in the International Seminar organised by Dept. of Commerce K.U.K. on December 18, 2023.

Library Development

The Library has a rich collection of over 53,695 books covering an array of different disciplines. It subscribes 14 Hindi & English Newspapers, 22 magazines and journals. E-resource facility is also available through which students and teachers can access the world’s best databases, DULS, E-Journals, E-books, N-List and Reports. The library is computerized with bar coded books and membership cards. Xerox facility is also available for the staff members. The existing ceiling of the number of copies of a title to be purchased has been increased from five to twenty in view of new syllabi. The new arrivals are duly notified and prominently displayed.

Faculty Strength

Total: 60 (Sixty only) - (Permanent– 44, Ad-hoc– 16)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 30.0 Cr.

Grant Utilized: ₹ 28.3 Cr.

SHAYMA PRASAD MOKHERJI COLLEGE FOR WOMEN

Major Activities and Achievements

Shyama Prasad Mukherji College (SPMC) has introduced Integrated Teachers Education Program course from the Academic Session 2023-24. SPMC is the only college in the University of Delhi that offers B.Ed,

B.El.Ed and ITEP course. SPMC in collaboration with TLC, Ramanujan College organized a two week FDP on the theme Indian Knowledge System: A Multidisciplinary Legacy from July 13 – 27, 2023. SPMC organized a ‘Five Days Skill Enhancement Program for Non-Teaching Staff’ from September 25-30, 2023. The faculty members have also significantly contributed to the institution's scholarly endeavors, publishing more than 70 research articles, books and book chapters.

Honours/Distinctions

Faculty

Dr. Avinash Kumar has been awarded B High-Grade Artist by All India Radio, Delhi.

Dr. Avinash Kumar was awarded ‘Sangeet Shri’ by “SMIPAC” in Yuva Utsav 2023.

Dr. Anuja Jha was awarded "National Avishkar Achiever Award 2023" for the "Best Young Music Teacher of the year" by the Avishkar Foundation, Sholapur.

Dr. Anuja Jha has been awarded B High-Grade Artist by All India Radio, Delhi.

Student

Priya Mishra, BA Program (II Year) won first prize with Rs 51,000/- in a millet recipe competition in an International conference on ‘Millets for achieving nutritional and economic security’ organised by NIFTEM, September 22, 2023

Publications

Scopus Indexed Journals

Husain, M. A., Kumar, P., & Gonencgil, B. (2023). Assessment of Spatio-Temporal Land Use/Cover Change and Its Effect on Land Surface Temperature in Lahaul and Spiti, India. *Land*, 12(7), 1294.

Mishra, M. M., Sahu, N., Mallick, G., & Pani, B. (2023). Trend of Malaria Incidences and its Association with Rainfall in Kalahandi District of Odisha, India. *Indian Journal of Public Health*, 67(1), 166-169.

Mishra, M. M., Sahu, N., Pani, B., Chakraborty, A., & Mallick, G. (2023). Assessment of Human Health Vulnerability in Kalahandi-Balangir-Koraput Region of Odisha, India. *Journal of Communicable Diseases*, 55(2), 1-8.

Bedi, P., Singhal, A., & Bhasin, V. (2024). Deep learning based active image steganalysis: a review. *International Journal of System Assurance Engineering and Management*, 15(3), 786-799.

Gera, J., Marwaha, E. B., Thareja, R., & Jain, A. (2023). Predicting and Improving Behavioural Factors that Boosts Learning Abilities in Post-Pandemic Times using AI Techniques. *International Journal of Advanced Computer Science & Applications*, 14(11).

Yadav, P., Gera, J., & Kaur, H. (2024). Enhancing the accuracy of collaborative filtering based recommender system with novel similarity measure. *Multimedia Tools and Applications*, 83(16), 47609-47626.

Singh, M. K., Ahmed, J., Alam, M. A., Raghuvanshi, K. K., & Kumar, S. (2024). A comprehensive review on automatic detection of fake news on social media. *Multimedia Tools and Applications*, 83(16), 47319-47352.

Yadav, P., Tyagi, S., & Kaur, H. (2023). Evolutionary extreme learning machine based collaborative filtering. *International Journal of Advanced Technology and Engineering Exploration*, 10(104), 858.

Kumar, S., & Niwas, M. (2023). Analyzing multi-peak and lump solutions of the variable-coefficient Boiti–Leon–Manna–Pempinelli equation: a comparative study of the Lie classical method and unified method with applications. *Nonlinear Dynamics*, 111(24), 22457-22475.

Niwas, M., & Kumar, S. (2023). Multi-peakons, lumps, and other solitons solutions for the $(2+1)$ -dimensional generalized Benjamin–Ono equation: An inverse (G'/G) -expansion method and real-world applications. *Nonlinear Dynamics*, 111(24), 22499-22512.

Kumar, S., & Niwas, M. (2023). Exploring lump soliton solutions and wave interactions using new Inverse (G'/G) -expansion approach: applications to the $(2+1)$ -dimensional nonlinear Heisenberg ferromagnetic spin chain equation. *Nonlinear Dynamics*, 111(21), 20257-20273.

Kumar, A., Goel, K., & Nilam. Mathematical modeling of terrorism dynamics: Qualitative analysis and theoretical perspective. *Mathematical Methods in the Applied Sciences*.

Kumar, A., & Goel, K. (2023). Dynamics of a nonlinear epidemic transmission model incorporating a class of hospitalized individuals: a qualitative analysis and simulation. *Journal of Physics A: Mathematical and Theoretical*, 56(41), 415601.

Bhatnagar, S., Kumari, R., & Kaur, I. (2024). Seaweed and a biocontrol agent and their effects on the growth and production of *Brassica juncea*: a sustainable approach. *World Journal of Microbiology and Biotechnology*, 40(1), 16.

UGC Care List Journals

Kumari, M., Rai, S. R., & Mishra, P. K. (2023). Impact of Land-use/cover Changes on Groundwater Level Dynamics in Semi-Arid Region of India. *Ann. Nat. Assoc. Geogr. India*, 43, 152-173.

Yadav, A., & Bhatia, S. (2023). Objectification and Psychological Well-Being across Gender: A Study on Urban Indian Adults. *Madhya Pradesh Journal of Social Sciences*, 28(1), 74-90.

Kaur, K. (2023). Matimen, thugs, soldiers and landlords: Mazhabi Sikhs in the colonial period. *Sikh Formations*, 19(3), 242-253.

Web of science

Mishra, A. K., Upadhyay, A., Mishra, P. K., Srivastava, A., & Rai, S. C. (2023). Evaluating geo-hydrological environs through morphometric aspects using geospatial techniques: A case study of Kashang Khad watershed in the Middle Himalayas, India. *Quaternary Science Advances*, 11, 100096.

Kumar, A., & Goel, K. (2023). Modeling and analysis of a fractional-order nonlinear epidemic model incorporating the compartments of infodemic and aware populations. *Physica Scripta*, 98(9), 095224.

Tayal, N., & Sharma, N. (2023). Dwelling into the Role of Ahamkara in Academic Performance: A Qualitative Inquiry. *Qualitative Research in Education*, 12(2), 83-115.

Bhatnagar, S., & Kumari, R. (2024). Floral biology, pollination biology, and breeding mechanisms reveal challenges to the restoration of *Buchanania lanzan*, a vulnerable plant species. *Flora*, 311, 152448.

Journals

Prof. Sadhna Sharma (Editor-in-Chief), Dr. Virendra Pratap Yadav, Dr. Indivar Mishra, Dr. Amna Mirza .(2023). Journal of Applied Research in Humanities, Language and Social Sciences” . Shyama Prasad Mukherji College , 2(2), 1-73

Research Projects

ICSSR, Dr. Sanjiv Kumar Yadav, Understanding the Law, Life world and Marginality of Religious Converts in Southern States of India (F. No. ICSSR/RPD/MJ/2023-24/ST/44), ₹ 14 lakhs

ICSSR, Dr. Sanjiv Kumar Yadav, Cooperative Federalism and Access to Education: A Study of Selected ‘Aspirational Districts’ in India (F. No. ICSSR/RPD/MJ/2023-24/G/33), ₹ 14 lakhs

3. ICSSR, Dr. Sanjiv Kumar Yadav, Accessibility and Sustainability of PM Krishi Sinchai Yojana: A Comparative Study of Uttar Pradesh, Jharkhand, Himachal Pradesh and Uttarakhand” (F. No. ICSSR-CRP-2023-974), ₹ 14

Social Studies Foundation, Pune, Dr. Sanjiv Kumar Yadav, Understanding Caste, Race and the Phenomenology of Discrimination in Contemporary World (F. No.: SSF/1/2023), ₹ 6 lakhs

ICSSR, Dr. Namita Kumai, Higher Education Social Responsibility in India: A Comparative Study of Four Central Universities, ₹ 9.5 lakhs

Seminars Organized

“Contesting Displacement and Struggle for Social Justice: South African Experience”, February 21, 2024

“Royal marriages in the 17th century: A Florentine bride for a French King”, February 2, 2024

“Mock Parliament”, November 29, 2023

“Media and Women Empowerment in India”, March 02, 2024

“Yes to Life, self, Breast Cancer Awareness”, November 22, 2023

Conferences Organized

National Youth Summit, August 18, 2023, All India Radio

Celebrating Indo-French Relations in the Wake of India's G20 Presidency, September 26, 2023, Cultural Council, University of Delhi

Annual Literature Festival “SHABDPAKHI”, February 02, 2024, Oil India Limited

Seminar/Conference Presentations (National / International)

Anuja Jha delivered a lecture cum demonstration on "The Techniques and Possibilities of Sitar Playing " organized by Department of Music, Kanpur Vidya Mandir PG. College, Kanpur on March 28, 2023

Anuradha Shankar presented a paper on ‘Assessing Urban Environmental Conditions in Build-Up Areas: A Case Study of NCT Delhi’ at an international seminar organized by Jamia Milia Islamia, Delhi on February 21, 2024

Bineet Kaur presented a paper “Justice in the Shadows: The Resonance of Justice in The Rape of Lucrece” at the International Conference organized by The Shakespeare Society of India in collaboration with the Department of English, Faculty of Arts, University of Delhi. held on February 23-24, 2024

Chayanika Uniyal presented a paper at the International Paris Congress on Agriculture and Animal Husbandry on “Feminization of Agriculture: A case Study of India” organized by IKSAD INTERNATIONAL NETWORK held in Paris, France during June 29-30, 2023.

Chayanika Uniyal presented a paper at IX-International European Conference on Interdisciplinary Scientific Research on “Debating the Linkages of Workforce Gender Concerns and Development Dynamics” organized by IKSAD- Institute of Economic Development and Social Researches University De València, Valencia/Spain held on January 19-21, 2024 at Valencia, Spain.

Monika Niwas presented a paper ‘Exploring Soliton Solutions for the (2+1)-dimensional Nonlinear Heisenberg Ferromagnetic Spin Chain Equation using the Inverse (G’/G)-Expansion Approach’ at the International Conference on Advances in Pure & Applied Mathematics (ICAPAM), organised by Shyam Lal College, University of Delhi from February 8 -10, 2024.

Noduli Pulu presented a paper titled "Formation of Collective Memory: A Study of Mamang Dai's Escaping the Land" at the conference ANUSADHAN 1.0 organized by Research Society of Indian Institute of Technology Mandi from June 23 to 25, 2023.

Rishiraj Pathak delivered a lecture on the topic 'Gandharva Veda' organized by the Indira Gandhi National Center for Arts, Delhi on January 10, 2024.

Shivesh Berwal Invited speaker at International conference on Climate Change, Sustainable Development and Smart Agriculture (ICSSA-2023) organized by Ministry of Earth Science at Kalinga University, Raipur held from April 6-7, 2023

Suruchi Bhatia delivered a lecture on “वट वृक्ष की टूटती टहनियां: संयुक्त परिवार विखंडन पर” Organized by Prasar Bharati, India’s Public Service Broadcaster, Akashvani/Doordarshan, Delhi held on November 21 (broadcasted on November 22), 2023..

National/International MoUs Signed

MOU with Sona Devi Sthia P.G. Girls College, Tharda Road, Sujangarh to promote cooperate in the academic activities and research under the Vidya Vistar Scheme, University of Delhi.

MOU with Timber Touch India Pvt. Ltd. to collaborate in the academic activities especially in the field of Skill Development Training and Internship of students.

MOU with Centrik Ligalistic LLP to collaborate in the academic activities specially in the field of Legal Awareness Programmes, Skill Development Training and Internship of students.

Other Inter-Institutional Collaboration

SPMC in collaboration with Nutritional Society of India celebrated National Nutrition Month by organising an intercollege Educational Aid preparation competition on ‘Anaemia in Adolescent Girls’ in September 2023. In collaboration with Delhi Disaster Management Authority, West Delhi, the college conducted a Mock Drill on Earthquake on August 31, 2023. A workshop on ‘Segregation of Waste for Recycling and Management’ was conducted in collaboration with Indian Pollution Control Association IPCA, MCD, New

Delhi on November 26, 2023. SPM College in collaboration with Indira Gandhi National Centre for Arts, New Delhi organised Gita Mahotsav Lecture on December 13, 2023. SPMC and Indira Gandhi National Centre for Arts, New Delhi in collaboration with CPP&G and Tohri Foundation organised Cultural Policy Chaupal on March 11, 2024.

Placement Details (Number and percentage of students placed)

15

Placement Number of Companies Visited for Campus recruitment

08

Extension and Outreach Activities

The Centre for Social Development and NSS unit collaboratively organised “Nari Shakti Sangam” on November 17, 2023. Ruchika, Vocational Centre is running two courses ‘Cutting-Tailoring and ‘Secretariat Training’ for women living in neighbouring localities of the college in the Academic Year 2023-24. FCC, SPMC organized workshops and seminars for the all the stakeholders on the issues of suicide prevention, let’s celebrate life, social transformation among women, perspective taking, etc throughout the year. In collaboration with Mission Life, University of Delhi, the college organized a Tree Plantation Drive on May 12, 2023. NSS, SPMC Unit, organized ‘Ek Tareekh Ek Ghanta’, on the occasion of Gandhi Jayanti in order to promote Swatchhta amongst the youth on October 1, 2023. NSS Unit of SPMC organized various events including a Triranga Yatra on August 14, 2023 which aimed to foster patriotism and social responsibilities amongst the citizens, organised a week long collection drive of stationary items from February 7-12, 2024 and then went on a distribution drive to help the students in need, books and stationary distribution drive on February 28, 2024 at Deen Dyal Camp , Punjabi Bagh, an Abhiyaan- ‘Meri Matti, Mera Desh’ on October 18, 2023 where Block Level Kalash Yatra was carried out, a Yamuna Sansad, an awareness drive to protect Yamuna River on June 4, 2023 at ITO, Delhi where students formed a human chain. Many commoners and environment activist also joined the campaign.

Library Development

During the year, 1,801 books were added, including 21 donated books. The library also subscribes to 18 journals, 38 magazines, and 10 newspapers. It has more than 5,000 memberships. The college has provided N-LIST: The project entitled “National Library and Information Services Infrastructure for Scholarly content” to fulfill information requirement of faculty and students through online access to e-books, e-journals, e-databases etc. to make more accessible to visually impaired students, the library had purchased Kibo device. Kibo device reads and translates printed/ handwritten/ digital text in various Indian languages and can store them in pdf and audio files.

Faculty Strength

Total: 190 (One hundred and ninety) - (Professor – 07, Associate Professor – 37, Assistant Professor – 139, Ad-hoc- 7)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 66.05 Cr.

Grant Utilized: ₹ 66.05 Cr.

SRI AUROBINDO COLLEGE

Major Activities and Achievements

Sri Aurobindo College stands tall among India's top 150 institutions. Since 2023-24, Sri Aurobindo College is the nodal college for 'Unnat Bharat Abhiyan'. Prof. Pramod Kumar leads as the Coordinator of the Subject Expert Group for Environment and Sustainable Resource Management for the said initiative. Our college was also appointed as the nodal college for deliberating upon India-China relationships under the University's G20 series of events. The college hosted international and national conferences, workshops, and industry visits and participated in several green initiatives, demonstrating its dedication to holistic growth. The NEEV 3.0 Job and Internship Fair facilitated connections with 50 esteemed organizations, amplifying career prospects for 1500 registered students.

Honours/Distinctions

Faculty

Prof. Namita Rajput, Professor, Department of Commerce, was awarded with the 'Global Gender Sensitization Award' by 'Systemic Diversity and Inclusion Group, United States' on March 1, 2024. This prestigious award recognized her outstanding contribution to advancing gender equality and promoting inclusivity across all spheres of academic and social endeavors.

Dr. Anil Kumar Mavi was awarded with 'Best Oral Presentation' at the 'International Symposium on Global Science for Global Well being' organized by IMS Ghaziabad on November 27, 2023.

Dr. Meenakshi Chaudhary, Associate Professor, Department of Commerce and Dr. Vandana Munjal, Assistant Professor, Department of Commerce were awarded with the 'Best Paper Award' for presenting a research paper titled 'Investigating students resistance towards adoption of e-learning systems' at the International Conference on 'Envisioning India as a Global Leader - Under G20 Presidency' organized by the college on February 23-24, 2024.

Mr. Saurabh Kumar, Assistant Professor, Department of Commerce, was awarded with the 'Best Paper Award' for presenting a research paper titled 'A Systematic Literature Review of Indian and International IPOs' at the National Conference on 'Financial Literacy: Demystifying Investment Options' organized by Gargi College in collaboration with Committee for Financial Literacy, University of Delhi on March 15, 2024.

Prof. Manju M. Gupta was Inducted as an advisor at SPUN (<https://www.spun.earth/about/team>) in 2024.

Mr. Abhinav Prakash published a book titled 'मदन मोहन मालवीय: विचार एवं व्यक्तित्व' with 'विजया बुक्स, शाहदरा दिल्ली' in 2023.

Dr. Anita Singh published a book titled 'Parasitic Associations' with 'Bluerose Publisher' in 2023.

Publications

Scopus Indexed Journals

Sachan, P., Suraj, M. S., Aggarwal, R., Mittal, A., & Asique, M. C. (2023). A Study of the Axisymmetric Restricted Five-Body Problem within the Frame of Variable Mass: The Concave Case. *Astronomy Reports*, 67(4), 404-423.

Raj, B., Rahul, J., Singh, P. K., Rao, V. V. K., Kumar, J., Dwivedi, N., ... & Strzałkowski, K. (2023). Advancements in PET Packaging: Driving Sustainable Solutions for Today's Consumer Demands. *Sustainability*, 15(16), 12269.

Yadav, S., Kumar, M., & Aggarwal, R. (2023). Analysis of Resonant Curve in a Synchronous Satellite under the Gravitational Effect of the Sun, the Moon, and the Earth Including Its Oblateness using Poincare Section. *Astronomy Reports*, 67(6), 638-654.

Kaur, B., Kumar, S., & Aggarwal, R. (2023). Effect of Finite Straight Segment on the Non-linear Stability of the Equilibrium Point in the Planar Robe's Problem. *Astronomy Reports*, 67(4), 424-437.

Mittal, A., Pal, K., Suraj, M. S., & Aggarwal, R. (2023). Effect of Stokes drag in the restricted four-body problem with variable mass. *New Astronomy*, 103, 102042.

Chauhan, S., & Aggarwal, R. (2023). Exploring the Perturbed Restricted Three-Body Problem under the Effect of Albedo and Straight Segment. *Astronomy Reports*, 67(10), 1008-1018.

Borah, S. J., Gupta, A. K., Gupta, A., Bhawna, Kumar, S., Sharma, R., ... & Kumar, V. (2023). Grasping the supremacy of microplastic in the environment to understand its implications and eradication: a review. *Journal of Materials Science*, 58(32), 12899-12928.

Singh, V., Ulasov, I., Gupta, S., Singh, A., Roy, V. K., & Kharwar, R. K. (2024). Idiopathic pulmonary fibrosis: where do we stand and how far to go. *Discov. Med*, 36, 22-47.

Dhariwal, N., Yadav, P., Kumari, M., Jain, P., Sanger, A., Kumar, V., & Thakur, O. P. (2023). Iron oxide based nanoparticles for fast-response humidity sensing, real-time respiration monitoring and non-contact sensing. *IEEE Sensors Journal*.

Kumar, Y., Jain, P., Bangotra, P., Singh, D. V., Kumar, V., & Rajouria, S. K. (2024). Mass Spectra of Diphotons at Finite Chemical Potential in Massive Nuclear Collisions. *Brazilian Journal of Physics*, 54(1), 6.

Jain, P., Kumar, Y., Kumar, V., & Bangotra, P. (2023). Search for Super-Deformed Identical Bands in the $A=190$ Mass Region on the Basis of Level Spin. *Universe*, 9(8), 362.

Singh, Y. P., Kumar, V., Shukla, A., Jain, P., Kumar, Y., Sapra, R., ... & Sharma, S. (2023). Systematic Study of Gamma Decay Hindrance Factors. *Physics of Particles and Nuclei Letters*, 20(4), 577-582.

Mittal, A., Pal, K., & Aggarwal, R. (2023). The Analysis of the Photogravitational R4BP Under the Combined Effect of Stokes Drag and Oblateness with Variable Mass. *The Journal of the Astronautical Sciences*, 70(6), 52.

Kumar, D., Aggarwal, R., & Kaur, B. (2023). The Photogravitational Restricted Problem of $2+2$ Bodies with Straight Segment and Oblate Spheroid. *Astronomy Reports*, 67(3), 294-306.

Prabhudessai, A. G., Balaji, S., Prasad, S., Chahal, S., Biswas, K., Ramesh, K., ... & Annapurna, K. (2024). Thermal, structural, and conductivity properties of $\text{As}_{14}\text{Sb}_{26}\text{S}_{60-x}(\text{AgI})_x$ chalcogenide glasses. *Journal of Applied Physics*, 135(9).

Kumar, V., Aggarwal, R., & Marig, S. K. (2023). Unveiling the intricacies of attracting zones in magnetic binary systems: Investigating the impact of Yukawa correction. *Astronomy and Computing*, 100783.

Bag, S.K. (2024). Modernism to Postmodernism: A Changing Discourse. *International Journal of Novel Research and Development*, 9(3), 503- 508.

Bag, S.K. (2024). Postcolonialism: An Alternative Discourse Theory. *International Journal of Novel Research and Development*, 9(4), 586-591.

UGC Care List Journals

Gupta, R., Sinha, P. K., Sahu, A., & Sood, V. (2021). Success drivers of urban haats selling craft products. *International Journal of Rural Management*, 17(1), 120-139.

Kumar, R., Singh, K., Mavi, A. K., Nagar, J. K., Raj, S., Kumar, M., & Nagaraja, R. (2024). Combustion of Biomass Fuel and Chronic Obstructive Pulmonary Disease in Rural Population of India. *The Indian Journal of Chest Diseases and Allied Sciences*, 66(1).

Mathur, R., Gunwal, I., Mago, P., Wadhwa, N., & Katyal, R. Unlocking the Potential of Mushroom for Industrial Applications.

Gulati, S., Narang, A., Shukla, A., Katyal, R., Mathur, R., & Kaur, J. (2022). Arbuscular mycorrhizal fungi and host-plant relationship with respect to heavy metal remediation of soil.

Singh, T., Bhattacharya, M., Mavi, A. K., Gulati, A., Sharma, N. K., Gaur, S., & Kumar, U. (2023). Immunogenicity of cancer cells: an overview. *Cellular Signalling*, 110952.

Kumar, R., Kumar, M., Raj, S., Arisham, D. K., Mavi, A. K., & Singh, K. (2024). Smoking cessation and its significant role in the Indian scenario. *Monaldi Archives for Chest Disease*.

Web of science

Singh, D., & Jain, S. (2023). Tracing the drivers behind corporate social responsibility through the lens of a systematic review of literature. *JIMS 8M The Journal Of Indian Management And Strategy*, 28(4), 39-50.

Tyagi, T., Kulshrestha, J., & Maini, J. (2024). A Study Of Health Consequences Due To'Female Genital Mutilation'In African Novels With Special Reference To Abraham Verghese's Cutting For Stone And Alice Walker's Possessing The Secrets Of Joy. *Journal of Advanced Zoology*, 45(1).

Journals

Prof. (Dr.) S. P. Aggarwal; .(2023). *INTERNATIONAL JOURNAL OF APPLIED ETHICS* . Centre for Ethics and Values, Ramanujan College, University of Delhi, India , 9(1), 1-46

Prof. (Dr.) S. P. Aggarwal (India) & Prof. (Dr.) Deepak Khazanchi (International) .(2023). *Ramanujan International Journal of Business and Research (RIJBR)* . Ramanujan College, University of Delhi, Delhi, India, 8 (1), 1-91

Research Projects

Unnat Bharat Abhiyan, IIT Delhi, Ministry of Education, GOI, Prof. Pramod Kumar, Environment and Sustainable Resource Management, 20 lakhs per annum

Patents Filed/Granted

Two National patents

Vipin Kumar Rathi, Vinay Chaudhary. Blockchain Defined Multi-domain Orchestrator. Patent No. 525768. Granted for 20 years w.e.f October 17, 2018

Vipin Kumar Rathi, Rahul Prasad, Dinkar Jain, Dr Bhawana. Hybrid Post-Quantum Encryption (PQE) on Private/Public Permissioned blockchain Wallets on Decentralised Identity (DID) ecosystem. Patent no: 470072. Granted for 20 years w.e.f. March 25, 2023

Seminars Organized

“Artificial Intelligence - Prospects and Challenges with special reference to politics and Governance”, March 21, 2024

Workshop on “Data Visualization with Tableau”, August 26, 2023

Workshop on “Financial Planning”, September 09, 2023

“Cyber Security”, February 02, 2024

Workshop on “Financial Modelling with Excel”, February 17, 2024

Conferences Organized

Two-day International Conference on ‘Envisioning India as a Global Leader: Under G20 Presidency’, February 23, 2024, Indian Council of Social Science Research (ICSSR)

Seminar/Conference Presentations (National / International)

Anil Kumar Mavi presented a paper titled ‘Advancements in Targeting MUC1 for Therapeutic Intervention in Asthma: A Comprehensive Exploration of FDA-Approved Drugs and Natural Compounds’ at ‘ICAAICON Jaipur’ on January 6, 2024.

Kirti Yadav presented a paper titled ‘Analysing the Impact of Personalized Content in Digital Marketing Strategies’ at ‘India's Role As A Global Business Superpower: Unleashing The Power Of The Indian Business Model’ on March 13, 2024.

Ila Yadav presented a paper titled ‘Live Streaming Commerce: Antecedents and Customer Engagement Perspective’ at ‘EBES, Rome’ in 2023.

Neetu Dwivedi presented a paper titled ‘Navigating the Applications of Artificial Intelligence (AI) in Climate Policies Pertaining to India’ at ‘Artificial Intelligence - Prospects & Challenges with Special Reference to Politics & Governance’ on March 20-21, 2024.

Parul Jain presented a paper titled ‘Brick Kilns & Air Pollution: Evidence from India’ at ‘28th Annual Conference of the European Association of Environmental and Resource Economists (Limassol Cyprus)’ in 2023.

Poonam Jain presented a paper titled ‘A theoretical study of level spin in A=130 superdeformed nuclei.’ at ‘1st International conference on Emerging Trends in STEM & Health Agri Sciences for Sustainable Development’ on March 12, 2024.

Shasta Gupta presented a paper titled ‘Corporate Governance Predicting Bankruptcy: Analysis and Application on Adani Group Companies’ at ‘ICGS Conference 2023: Sustainable Corporate Governance (IE University, Madrid, Spain)’ on October 21, 2023.

Silky Jain presented a paper titled ‘Impact of stakeholders on the Corporate Social Responsibility Expenditure: An empirical Investigation’ at ‘Corporate Governance and Sustainable Development: Reflecting New Perspectives in Emerging Economies and Around the Globe’ on September 16-17, 2023.

Sukriti Sobti presented a paper titled ‘Film-making and Ecological Concerns: A Comparative Textual Reading of Popular Films Bhediya and Kantara’ at ‘International Conference on Sustainable Environments and Interspecies Ecologies: Literature, Creativity, Theory and Praxis’ on September 29-30, 2023.

Shubhra Gupta presented a paper titled ‘Modeling of ZrS₂/MoS₂ heterostructures for photovoltaic applications using SCAPS’ at ‘28th International Conference on Nuclear Tracks and Radiation Measurements (28th ICNTRM-2023)’ in 2023.

National/International MoUs Signed

MoUs with: Training and Placement Cell and Data Trained Education Pvt Ltd. (To conduct the skill series workshop / seminars for students); Training and Placement Cell and Proschool Skill Development Pvt Ltd. (To conduct the skill series workshop / seminars for students); Training and Placement Cell and Drishti IAS (To conduct the seminars for students regarding preparation for civil services); Nivesh and ELearnmarkets (provides access to two of their professional courses; Stock market made easy; and; Options trading made easy; free of cost to make the students learn well about the basics of stock market and techniques of option trading); Nivesh and Leverage Edu (to provide an opportunity for all the college students to better plan their higher studies outside India); Nivesh and Finlatics (for students to learn an Indian platform providing real-world work experiences in the area of finance); Enactus Cell and Praha Foundation; Enactus Cell and Earth Warrior

Other Inter-Institutional Collaboration

Collaborations with IGNOU, SOL and NCWEB for Education empowerment initiative. Collaboration with Hallparty Platforms Private Ltd. (to provide Smart identity cards to all students of the at NO COST)

Placement Details (Number and percentage of students placed)

33

Placement Number of Companies Visited for Campus recruitment

40: The college hosts an annual Job and Internship Fair called Neev, which saw participation from over 40 companies across different industries in both online and offline formats. Banking and Financial Services-

6, Consultancy-9, Education/E-learning-7, Food industry-3, Accounting/Auditing or Legal Services- 4, Recruitment/Staffing-4, Customer Experience Management-1, advisory firm-4, Telecommunications-1, Non-Profit organization -1, Real estate-2, Wellness and Fitness-1, Content Marketing Company-2

Extension and Outreach Activities

NSS has conducted various extension and outreach activities like Visiting orphanages, cancer hospitals, and old age homes to spread joy and companionship. The NSS team regularly engages with the residents of the local community by organizing games, cultural activities, and interactive sessions, fostering bonds of empathy and understanding. Through initiatives like Green Stride and Meri Maati Mera Desh, the NSS unit instilled a profound environmental consciousness, advocating for sustainable practices and tree plantation drives. Swachhata campaigns like Special Campaign 3.0 and Swachhta Hi Seva kindled a collective passion for cleanliness and unity by conducting cleanliness drives and awareness programs in the local communities. From Swachhta Hi Seva to the vibrant hues of Khadi Mahotsav, each event resonated with dedication and service, leaving an indelible mark on society. PRITHVI-The Society for Environment at our college, organized a comprehensive cleanliness drive, spearheaded a plantation drive and launched an awareness campaign to educate individuals about the critical role of the ozone layer in protecting life on Earth and the need for collective action to combat ozone depletion in observance of Ozone Day. PAAKHI-The Women Empowerment Cell of our college tirelessly works towards uplifting women and addressing the challenges they face in our society. From organizing events like the celebration of International Day of the Girl Child to conducting informative seminars on crucial topics like breast cancer awareness, Paakhi remains dedicated to educating and empowering women on matters concerning their health and well-being. Moreover, Paakhi's pad donation drive extended its reach to various slum areas, including Hauz Rani, PVE Anupam, Saket J Block, and others, distributing over 1100 pads to those in need, thereby ensuring access to menstrual hygiene products for marginalized women. Furthermore, a visit to the 'Sheroes' cafe by Channv Foundation provided an opportunity for Paakhi members to connect with and support survivors of acid attacks, demonstrating their compassion, dedication, and genuine commitment to understanding and addressing the challenges faced by marginalized women in our society. E-CELL is the driving force behind the cultivation of entrepreneurial spirit among students. The E-Cell undertook a field visit to the National Small Industries Corporation (NSIC) in Okhla. SAMVEDNA-The Gender Sensitization Forum organized a visit to the old age home on 24th of February 2024. The students arrived with baskets of fresh fruits and packets of biscuits, aiming to bring a bit of joy and nourishment to the residents. It also provided an opportunity for the residents to share their stories, experiences, and wisdom with the volunteers. NCC Cadets participated in Fit India Yoga Campaign and spread awareness about Yoga's benefits. NCC also organized a Pollution Awareness Campaign and participated in swachta mission on the occasion of SWACHHTA PAKHWADA. Électronique - The Electronics Society organized educational trips to expose the students to various technological advancement in the field of electronics and physics. A visit to CSIR-NPL Delhi was organized on October 04, 2023 for the students and faculties. A trip to the 31st Convergence India Expo was organised on 19th January 2024 was organized for teachers and students, where they learnt about different new inventions and start-ups. In addition to the tour, the students also attended short lectures and presentations by technology experts, and entrepreneurs.

Library Development

The library houses more than sixty-four thousand books and subscribes to several newspapers, magazines and e-journals. In 2023-24, a total of 1084 books were added to the existing collection. Additionally, ₹14000 was spent on the renewal of the AMC software; a management software that helps in keeping track, inventory management and aids in other library maintenance activities. In 2023-24, ₹5900 was spent for the renewal of N-list (INFILIBNET). A projector is also installed in the reading room of the library

Faculty Strength

Total: 166 (One hundred and sixty six) - (Professor – 22, Associate Professor – 21, Assistant Professor – 111, Ad-hoc- 4, Guest- 8)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 41.48 Cr.

Grant Utilized: ₹ 41.78 Cr.

SRI AUROBINDO COLLEGE (EVENING)

Major Activities and Achievements

The college team secured third position in the Inter-College Boxing Championship and Inter College Handball Championship organised by University of Delhi. The College Men's team won the Ten-Meter Pistol Team Championship. Prof. Pragyendu, Department of Applied Psychology, completed the project on “Psychometric Evaluation in Paramilitary forces” Organization-Bureau of Police Research and Development, MHA, Government of India. He is currently working on another research project on “Building Social- emotional Competence: An integrated approach to Promote Well-being” funded by ICSSR, New Delhi. Project X-Culture is a large-scale experiential learning collaborative exercise initiated by the University of North Carolina, USA. Students from Sri Aurobindo College (E) were selected for the project under the mentorship of Prof Sumati Varma. Last year witnessed the participation of 10 students from the college. They worked in 1289 global teams in virtual mode. Saatvik Khanna, B. Com (Hons) was awarded member of the Best Team for the year 2023.

Honours/Distinctions

Faculty

Professor Sumati Verma, has been awarded the Global Educator Award for her significant contribution to Project X-Culture and her role as the Faculty Advisor of the Best Team in May 2023 for Project X-Culture by the University of North Carolina, USA.

Dr. Susuant Kumar Bag was conferred with the Bharat Shree National Award-2023, organized by Grow Bharat Foundation and certified by the Ministry of Social Justice and Empowerment, GOI, for a remarkable role in Education and Indian Glory Award-2023 (Lifetime Achievement Award) conducted by Kite Kraft Production, Ludhiana, Punjab, May 13, 2023

Mr. Vinay Kumar Pandey, Department of Political Science, was awarded the ‘1st International Young Environment Ambassador Award by Let’s Do It India Foundation in collaboration with Delhi University Students Union on July 31, 2023.

STEG (CEPR) , Ms. Isha Gupta , Idea for Transformation (I4T) Project titled ‘The Rise of Business Services and Structural Transformation in India, Kenya and South Africa: Role of Female Labour Supply’, 1.06 lakhs

Teaching Learning Centre (TLC Ramanujan College), Dr. Ashish kr. Shukla and Dr. Sachin Tomar, Learning Analytics in Higher Education: With special reference to National Programme on Technology Enhanced Learning (NPTEL)” , 3 lakhs

Indian Council of Social Science Research, Neha Singh , Understanding the Discourse of Caste and Race in Contemporary Time, 11 lakhs

Social Studies Foundation, (Pune), Neha Singh , Understanding the Discourse of Caste and Race in Contemporary Time, 10 lakhs

Publications

Scopus Indexed Journals

Bag, S.K. (2024). Modernism to Postmodernism: A Changing Discourse. International Journal of Novel Research and Development, 9(3), 503- 508.

Bag, S.K. (2024). Postcolonialism: An Alternative Discourse Theory. International Journal of Novel Research and Development, 9(4), 586-591.

Shirodkar, V., Nayyar, R., & Varma, S. (2024). Institutional fragility and internationalization of Indian firms: Moderating effects of inward FDI and linkages. Journal of World Business, 59(3), 101502.

Malik, L., Shahnawaz, M. G., Rehman, U., Pragyendu, N., Uniyal, R., & Griffiths, M. D. (2023). Mediating Roles of Fear of Missing Out and Boredom Proneness on Psychological Distress and Social Media Addiction Among Indian Adolescents. Journal of Technology in Behavioral Science.

Web of Science

Tyagi, T., Kulshrestha, J., & Maini, J. (2024). A Study Of Health Consequences Due To'Female Genital Mutilation'In African Novels With Special Reference To Abraham Verghese's Cutting For Stone And Alice Walker's Possessing The Secrets Of Joy. Journal of Advanced Zoology, 45(1).

Patents Filed/Granted

Two National patents

Vipin Kumar Rathi, Vinay Chaudhary. Blockchain Defined Multi-domain Orchestrator. Patent No. 525768. Granted for 20 years w.e.f October 17, 2018

Vipin Kumar Rathi, Rahul Prasad, Dinkar Jain, Dr Bhawana. Hybrid Post-Quantum Encryption (PQE) on Private/Public Permissioned blockchain Wallets on Decentralised Identity (DID) ecosystem. Patent no: 470072. Granted for 20 years w.e.f. March 25, 2023

Seminars Organized

“Mental Status Examination and Case Study in Clinical Settings”, April 02, 2024

“Renowned Clinical Hypnotherapist, NA, Clinical Hypnotherapy: Career and Prospects”, April 10, 2024

“Approaches to the Study of Medieval Indian History”, November 06, 2023

“Understanding Marketing, November 30, 2023

Understanding Dementia: Assessment and Management, April 10, 2024

Conferences Organized

Cultures in Transformation: A Subcontinental Experience, March 01, 2024, NRC, ICSSR, Government of India

National (North Zone) Symposium on the Role of Probiotics in Neonatal and Child Health, April 12 2023, Probiotics Association of India and Ram Lal Anand College, University of Delhi

Seminar/Conference Presentations (National / International)

Ajit Kumar presented a paper entitled “Growth and Development in Africa” at the International Conference on “India-Africa Relations: Exploring New Pathways and Building the Future Together” organized by the Department of African Studies, University of Delhi on March 6-7, 2024.

Anisha Srivastava, Re-inventing Gender Norms: Grassroots Women and Climate Change in India in International G-20 conference on ‘Resilient Approaches for New World Order & Viksit Bharat’ organized by Shahid Bhagat Singh College at Dr Ambedkar International Centre, New Delhi on September 25, 2023

Anisha Srivastava, In Search for Women Short Story Writers: The genre of Hindi Short Stories in United Provinces (1900-1930) in ICHR funded National Seminar “Gender in Indian History: Constructions, Representations and Reality” organized by Department of History, Motilal Nehru College, November 23-24, 2023.

Anu Singh Deswal, “Artificial Intelligence and Women’s Participation in the Labour Market”, at the International Seminar on Sustainable Development Goals at Dyal Singh College, the University of Delhi, sponsored by NRC-ICSSR on February 26-27, 2024

Ravi Kant “Interrogating Kashmir’s Azadi: A Critical Reading of Firoz Rather’s The Night of Broken Glass from Dalit Muslim Perspective.” At a Two-Day International Conference on Transformations and Transitions: Emerging Trends in Literature and Language Studies organised by KLEF (Deemed to be University), Department of English, Guntur, Andhra Pradesh. (2024)

Ravi Kant, “Interrogating Kashmir’s Azadi: A Critical Reading of Firoz Rather’s The Night of Broken Glass from Dalit Muslim Perspective.” At a Two-Day International Conference on Transformations and Transitions: Emerging Trends in Literature and Language Studies organised by KLEF (Deemed to be University), Department of English, Guntur, Andhra Pradesh. (2024)

Sumati Varma, S. Munjal and Amit Soni, “How does Firm’s Technological Capability and Presence in industrial cluster affect its cross-border acquisition behaviour?” 50th AIB UK&I 2024 Conference, Aston Business School, Birmingham, United Kingdom, 3 – 6 April 2024

Sumati Varma, Sangeeta Arora and Niti Bhasin “Cement Industry and Its Adaptation to Carbon Constrained Indian Economy”), Indian Academy of Management (INDAM) Chapter Conference, Goa Institute of Management, January 12, 2024

Sumati Verma, Sangeeta Arora and Niti Bhasin “Measurement of Carbon Performance”: A Qualitative Approach, 6th Multinational Enterprises and Sustainable Development International Conference (MESD 23), New Delhi. November 2023

Vikas Kumar Joshiya, Business Viability of Marginalized, All India Commerce Conference of Indian Commerce Association, Dept. Of Commerce, University of Delhi, December 13-15, 2023

National/International MoUs Signed

The Next Generation Research and Innovation Centre of the Dept of Computer Science signed an MOU on November 29, 23 with Broadband Multimedia Wireless Laboratory, Dept of Electronic and Computer Engineering, College of Electrical and Computer Engineering, National Taiwan University of Science & Technology, Taipei, Taiwan to collaborate in knowledge-sharing and research and development.

Other Inter-Institutional Collaboration

Project X-Culture is a large-scale experiential learning collaborative exercise initiated by the University of North Carolina, USA. Since 2013, students from Sri Aurobindo College (E) have been selected for the project under the mentorship of Prof Sumati Varma. The Project is designed to provide students with an opportunity to gain first-hand experience in international virtual collaboration. Working in global virtual teams, the students developed a business proposal for half a dozen international companies as partners and provided a detailed plan for implementing the idea. Last year, 10 students from the college participated in the project alongside 6,500 students from 125 universities in 40 countries on six continents. They worked in 12,289 virtual teams. Our student Saatvik Khanna, of the B. Com (Hons) programme, was awarded a member of the Best Team award for 2023.

Placement Details (Number and percentage of students placed)

18

Placement Number of Companies Visited for Campus recruitment

43 (Multinational companies like Rekonveesations, Agile, infonative, ASG Group, Planet Spark and Careernext visited the college.)

Extension and Outreach Activities

Outreach Programme's 2023-2024 activities were marked by impactful community engagement events. On August 13, 2023 volunteers celebrated Pre-Independence Day at Vasant Vihar's Coolie Camp, featuring prayers, plays on "Beti Bachao, Beti Padhao", dances, poems, and the National Anthem. The Blindfold Interaction Event, on August 23, 2023, a collaboration with The School of Happiness, aimed at reducing social anxiety through non-judgmental interactions. A Gandhi Jayanti Cleanliness Drive was organized on October 1, 2023 at Coolie Camp, with volunteers and children joining forces to emphasize sanitation and honor Mahatma Gandhi's legacy. A visit to Panchwati Old Age Home on November 4, 2023 saw students upcycling old clothes into bags, showcasing creativity while benefiting the elderly. The Prajna Foundation

Event on November 23, 2023 at Kalkaji, organized by Jazba - The Theatre Society and National Outreach Programme, was both engaging and impactful. Republic Day celebrations on January 25, 2024, at Coolie Camp featured musical performances, dances, poetry, and an awareness play on “Cyber bullying”. A Donation Drive from February 19-24 raised 10,000 INR and collected essential items for Prajna Foundation and Khushi Rainbow Home NGO. The society collaborated with Raahat for a Workshop on Psychological First Aid on March 18, 2024 at the Ghalib Auditorium. Concluding the activities, Parivartan - Change Through the Lens, an Intercollege Short Film Competition on "Masked Realities", was held on March 18 and 19, 2024, awarding top films for their contributions. English (Hons.) students organised an Outreach Programme with the children of the construction workers and celebrated the festival of colours and light. They collected clothes, food items and toys from the department and distributed it among those kids. A heritage walk to Shahjahanabad city was organised on 5th December 2023, under the guidance of Dr. Archana Ojha, Associate Professor, Department of History, Kamla Nehru College, University of Delhi. Women Development cell organised Self Defence Workshop in Collaboration with NSS and Delhi Police on 6th and 7th March. Students of BMS made a visit to ROJAVANAM old age home on 12th March, 2024.

Library Development

The college library included 1600 books on nearly all relevant subjects during the 2023-24 session. E-Granthalaya 4.0 cloud-based software has been installed for app-based communication. Provided e-services to the students and faculty members.

Faculty Strength

Total: 81 (Eighty One) - (Professor – 13, Associate Professor – 20, Assistant Professor – 45, Guest- 3)

Financial Allocation and Utilization

Grant Sanctioned: ₹ 36.3 Cr

Grant Utilized: ₹ 31.4 Cr.

SRI GURU GOBIND SINGH COLLEGE OF COMMERCE

Major Activities and Achievements

In the prestigious India Today Rankings for commerce colleges, Sri Guru Gobind Singh College of Commerce has consistently held its position as the 19th best college in India for the past two years and have achieved 6th position in the placement category of the above-mentioned rankings. Additionally, the college also figured in top 50 colleges as per NIRF ranking by Government of India. The Municipal Corporation of Delhi has accredited our college as a zero-waste Institution for our comprehensive waste management practices, including in-situ composting and reducing our environmental footprint.

The college has commenced experiencing the advantages stemming from the Purchase Power Agreement established with Tata Power Renewable Energy Limited for the installation of a Rooftop Solar Photovoltaic Power Plant in 2019, featuring a robust capacity of 103.02KWp, situated on our premises and a 700KWp capacity Solar Photovoltaic Power Plant situated near Bahadur Garh.

Publications

Scopus indexed Journals

Gill, K., Kumar, H., & Singh, A. K. (2023). Evaluating the efficiency of the global cryptocurrency market. *Indian Journal of Finance*, 17(11), 8-25.

KS, U. M., Aggarwal, P. K., & Usharani, R. Emerging Trends In Global Business And Economics.

Rakshit, S., & Mete, J. National Education Policy-2020 & Gender Equality.

Rangra, K., & Prakash, K. IIT Jodhpur: The Glorious Journey of Fifteen Years.

Singh, A. K., Gill, K., & Kalra, S. (2023). Evaluation of nexus between short-run return measures of IPOs in India. *Indian Journal of Finance*, 17(4), 8-26.

UGC Care-list indexed Journals

Bhatia, M. (2023). Consumer behaviour towards green cosmetics. *Journal of Informatics Education and Research*, 3(1).

Bhatia, M., Kaur, S. (2023). Cyber Crime And Cyber Law Awareness Among Youth: An Empirical Study. *International Journal of Creative Research Thoughts*, 11(12), 182-195.

Gupta, M., & Kumar, P. (2024). Forensic Auditing for Fraud Investigation and Prevention-A Critical Review. *The Management Accountant Journal*, 73-77.

Gupta, M., & Kumar, P. (2024). Forensic Auditing for Fraud Investigation and Prevention-A Critical Review. *The Management Accountant Journal*, 73-77.

Gupta, R., Kaur, H., & Kaur, M. (2023). Evolution of Fintech ensuring sustainability in financial markets: A bibliometric analysis. *International Management Review*, 19, 163-186.

Kaur, P. (2023). Waste Management Through Waste Segregation: Survey Analysis of a North Delhi Locality. *Journal of Business Management and Information Systems*, 10(2).

Kaur, S. (2024). Examining Global Cg Practices: An Analytical Study. *International Research Journal Of Management And Commerce*, 10(12).

Kaur, S. (2024). Financing Innovation In Start-ups For Sustainable Development: Challenges And Opportunities For Entrepreneurs. *International Journal Of Research In IT And Management*, 13(11), 109-119.

Kaur, S. (2024). Response Of Foreign Direct Investments To Gender Equality In Labour Market: A Study Of Female Employment In Asia & Pacific And Latin. *Asian And Pacific Economic Review*, 16(1).

Kaur, U., Chutani, N., & Handa, P. (2023). E-learning for Undergraduate Students Amid The Pandemic: Teachers' Perspective. *Journal of Engineering Education Transformations*, 37(2), 93–105. <https://doi.org/10.16920/jeet/2023/v37i2/23153>

Mahindru, R., Kaur, H., & Gupta, R. (2023). Mapping Research on Ageism, Personal and Social Well-Being in IT Professionals: A Literature Review and Bibliometric Analysis. *Acta Universitatis Bohemiae Meridionales*, 26(2).

Mahindru, R., Kaur, H., & Gupta, R. (2023). Mapping Research on Ageism, Personal and Social Well-Being in IT Professionals: A Literature Review and Bibliometric Analysis. *Acta Universitatis Bohemiae Meridionales*, 26(2).

Singh, A. K., Gill, K., & Kalra, S. (2023). Evaluation of nexus between short-run return measures of IPOs in India. *Indian Journal of Finance*, 17(4), 8-26.

Web of Science indexed Journals

Khanna, M., & Bansal, A. (2024). An assessment of heterogeneous ensemble classifiers for analyzing change-proneness in open-source software systems. *Journal of Software: Evolution and Process*, e2660. <https://doi.org/10.1002/SMR.2660>

Puri, V., Kaur, G., Kalra, J. K., & Gill, K. (2023). Bank stability and digitalisation: empirical evidence from selected Indian banks. *Journal of Economic and Administrative Sciences*.

Thapa, R., Devkota, N., Dhakal, K., Puri, V., Mahato, S., & Paudel, U. R. (2023). Evaluation of building construction permission certificate and customer satisfaction in Lalitpur city: evidence from structural equation modelling. *Journal of Economic and Administrative Sciences*.

Journals published by the College

College published the Volume 14 of *Journal of Business Thought* which is a UGC CARE Group – I and ABDC C-Ranked journal.

Research Projects

Kawal Gill, Centre of Excellence, SGGSCC, Digital Competence of ‘Young India’ – Antecedents and Outcomes, ₹ 1 Lakh.

Megha Ummat, Centre of Excellence, SGGSCC, Software Change Prediction using Ensemble Learning Algorithms: An Empirical Investigation, ₹ 1 Lakh.

Paramjeet Kaur, Centre of Excellence, SGGSCC, Comprehensive Analysis of Socio-economic and Working Conditions of Domestic Workers in Delhi, ₹ 1 Lakh.

Vandana Kalra, Centre of Excellence, SGGSCC, Well-being: Strategies to Cultivate Social Happiness and Elevate Human Life Satisfaction, ₹ 1 Lakh.

Seminars Organized

Prof. A. K. Singh, Department of Commerce, Delhi School of Economics, University of Delhi, IQAC, SGGSCC, Indian Values and Knowledge Systems in Higher Education, February 15, 2024.

Dr. Neeraj Kaushik, Associate Professor & Head in the Department of Business Administration, National Institute of Technology, Kurukshetra and Dr. Jaspreet Kaur Associate Professor at Vivekananda Institute of Professional Studies, Delhi, Centre in collaboration with IQAC of the college in and Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, Advanced Research Techniques in Social Sciences (using SmartPLS and Nvivo), July 25, 2023.

Mr. Labanya Prakash Jena, Senior Manager at the Climate Policy Initiative, Arthshastra Society, Department of Economics, Workshop on "Sustainable Finance", September 15, 2023.

ACE, Department of Computer Science, Open-Source Tools for Teaching and Research, September 18, 2023.

ACE, Department of Computer Science, Digital Literacy and Online Safety for Educators, April 4, 2024.

Conferences Organized

Vision India @ 2047: Global Leader in Economic Growth, Sustainability & Decarbonization, March 21, 2024 held at SGGSCC.

Seminar/Conference Presentations (National/International)

Ankita Aggarwal presented a paper titled “Psycho-Social impact of Covid-2019 on Work-Life Balance of Health Care Workers in India: A Moderation-Mediation Analysis” at Global Conclave 2024 on “Advancing Human Development in the Global South” organized by the Institute for Human Development (IHD) in collaboration with NITI Aayog, Government of India and Research and Information System for Developing Countries (RIS).

Ankita Aggarwal presented another paper titled “Evaluating the 'Make in India' Program: Strengths, Challenges, and Policy Implications for India's Manufacturing Sector” and received the best paper award in an International Conference held at Lingaya's Vidyapeeth, LeadershipX:IILC 2023.

Baldev Singh presented a paper titled “A case study of Coronil Medicine and its Effectiveness and analytical analysis in users” at a conference organised by University of economics -Baku Azerbaijan held on January 9-11,2024.

Bimaldeep Kaur, presented a paper titled “Fintech Revolution: Examining the Surge in Digital Banking among Women Consumers” in International Conference on Social Development and Governance : Innovations in Education Technology and Management held organised by RGVK- State Resource Centre under the aegis of MHRD, Government of India on November 18-19, 2023.

Gurminder Kaur Arora presented a paper titled “Psycho-Social impact of Covid-2019 on Work-Life Balance of Health Care Workers in India: A Moderation-Mediation Analysis” at Global Conclave 2024 on “Advancing Human Development in the Global South” organised by the Institute for Human Development (IHD) in collaboration with NITI Aayog, Government of India and Research and Information System for Developing Countries (RIS) held on January 11-13, 2024 at the India International Centre (IIC), New Delhi.

Gurveen Kaur, Assistant Professor, Department of Commerce presented a paper titled “Financial Inclusion and Sustainable Development – Role of Fintech” in the 7th Biennial International Conference “Vision India @ 2047: Global Leader in Economic Growth, Sustainability & Decarbonisation” organised by SGGSCC on March 22, 2024.

Hanisha Bhagat presented a paper titled “A Study of the Relationship between Transformational Leadership and Wellbeing of Employees with Disabilities at Workplace” at International Conference on recent Global Innovations, Challenges, and Trends in Multidisciplinary research organized by B.B.D. Government College, Chimanpura (Shahpura) on December 18-19, 2023.

Hanisha Bhagat presented a paper titled “Micro-finance as a tool for Financial Inclusion of the Marginalized Groups in India” at the International Conference on Multidisciplinary Issues (Management, IT& Social Sciences) organized by Research Education Solutions on October 14, 2023.

Hanisha Bhagat presented paper titled “The Role of Peer support in Job Performance of Employees with Disabilities at Work Place” was presented by her at International Conference on Sustainable Growth and Development through Emerging Technology & Innovation organized by Research Education Solutions on January 27, 2024.

Kajleen Kaur presented a paper on “India’s Education Landscape: The Changing Role of Women from Classrooms to Boardrooms” in the National Seminar on Indian Values & Knowledge System in Higher Education held on February 15, 2024 at SGGSCC.

Kriti Chadha presented a paper titled “Higher purpose in organizations and brand – a systematic review” at 3rd PRISM conference on November 18, 2023, hosted by BIMTECH Greater Noida.

Manisha Rao presented a paper in National Seminar on Women in Decision Making Roles in Corporates at Conference Centre, University of Delhi on the topic ‘Analyzing the Empowering Role of Women in Social Media: A Bibliometric Analysis’ on November 2 - 3, 2023.

Manisha Rao presented a paper on the topic ‘Digitization of Indian Knowledge System in Higher Education: A Transformative Journey’ in National Seminar on Indian Values and Knowledge System in Higher Education on February 15, 2024, Organised by IQAC at Sri Guru Gobind Singh College of Commerce.

Manisha Rao presented a paper on the topic ‘Investing Social Responsibility in Higher Education Through Bibliometric Analysis’ in International Conference on India and Europe in a Changing World: Understanding Global Dynamics and Navigating New Realities on February 16, 2024 at Mata Sundari College for Women, University of Delhi.

Manisha Rao presented a paper on the topic ‘The Significance of Digital Marketing in Higher Education: An Examination via Bibliometric Analysis’ in International G20 Conference on Resilient Approaches for New World Order & Viksit Bharat at Dr. Ambedkar International Centre, New Delhi, India on September 25, 2023.

Manisha Rao presented another paper in International Conference on ‘Management Education 5.0: Aligning NEP agenda with Digitization and Global Practices’ (ANEPDGP-2023) organised by Zakir Husain Delhi College (Evening) and GL Bajaj Institute of Management and Research, Greater Noida, on the topic: ‘The Prominent Instruments Employed In the Implementation of Blended Learning in Higher Education’ on September 8 & 9, 2023.

Manleen Kaur presented a paper titled “Familiarity of Indian Investors with Value Investing: an Empirical Investigation” in 9th Annual International Commerce Conference organized by Department of Commerce, University of Delhi.

Manleen Kaur presented a paper titled “Testing Inclination of the investors towards ESG and Green Practices and role of Social Media” in 7th Biennial International Conference organized by Sri Guru Gobind Singh College of Commerce, University of Delhi.

Manleen Kaur presented a paper titled “Traditional Indian Knowledge: Evolution & Inclusion in Contemporary Education System (NEP-2020)” at National Seminar on Indian Values & Knowledge System in Higher Education organized by Internal Quality Assurance Cell of SGGSCC.

Manleen Kaur presented and received the “Best Paper Award” for a paper titled “A study of Behavioral Influences in pursuing Value Investing: Structural Equation Modelling” at the “Global Conference on Emerging Technologies Leading Towards Sustainable Entrepreneurship, Economics, Tourism, Healthcare, Media, Education Supporting Green Environmental Practices and Business Growth” held on December 8-9, 2023.

Manleen Kaur presented another paper titled “Evidence of Recognition Heuristic in Indian Stock Market: An Empirical Analysis” in XXV Annual International Conference organized by Delhi School of Professional Studies and Research.

Meenu Chopra participated and presented a paper titled, “Survival of the fittest – Beyond Covid-19” in the 74th All India Commerce Conference- 2023 of the Indian Commerce Association on “One earth, One Family, One Future” & International Seminar hosted by Department of Commerce and Business, Delhi School of Economics, University of Delhi in association with Knowledge Partner O. P. Jindal Global University, Sonapat from December, 13th to 15th, 2023.

Menu Chopra presented a paper titled, “Shades of Chanakya in International relations in the 21st century” in National Seminar on ‘Indian Values & Knowledge System in Higher Education’ organized by Internal Quality Assurance Cell on 15th February, 2024.

Paramjeet Kaur presented a paper, ‘Psycho-Social impact of Covid-2019 on Work-Life Balance of Health Care Workers in India: A Moderation-Mediation Analysis’ at Global Conclave 2024 on “Advancing Human Development in the Global South” organised by the Institute for Human Development (IHD) in collaboration with NITI Aayog, Government of India and Research and Information System for Developing Countries (RIS).

Rachna Sethi presented a paper titled "Yoga as Therapy for Type 2 Diabetes Mellitus: An Effective Treatment Approach" at the National Seminar on Indian Values and Knowledge System in Higher Education on February 15, 2024, hosted by Sri Guru Gobind Singh College of Commerce, University of Delhi.

Rachna Sethi presented another paper titled "Yoga Pose Recommender System for Physical and Mental Illnesses" at the 2nd International Conference on Trends in Quantum Computing & Emerging Business Technologies, sponsored by IEEE, held on March 23, 2024, in Pune, Maharashtra.

Rekha Sharma presented the paper titled, ‘Indian Moral Values: Select Inferences from Shri Ramcharitmanas with special reference to Economics and Business’, and also won best paper award in the technical session of the National Seminar on ‘Indian Values and Knowledge System in Higher Education’ organized by IQAC of Sri Guru Gobind Singh College of Commerce on February 15, 2024.

Renu Gupta presented a paper titled “Traditional Indian Knowledge: Evolution & Inclusion in Contemporary Education System (NEP-2020)” at National Seminar on Indian Values & Knowledge System in Higher Education organized by Internal Quality Assurance Cell of SGGSCC on February 15, 2024.

Renu Gupta presented paper titled “Evidence of Recognition Heuristic in Indian Stock Market: An Empirical Analysis” in XXV Annual International Conference organized by Delhi School of Professional Studies and Research on January 6-7, 2024.

Renu Gupta received a best paper award for the paper titled “A study of behavioral influences pursuing value investing: structural equation modelling” presented at the Global Conference on Emerging Technologies Leading Towards Sustainable Entrepreneurship, Economics, Tourism, Healthcare, Media, Education Supporting Green Environmental Practices and Business Growth on December 9-10, 2023.

Vaibhav Puri presented a paper titled Effects of Mass Rapid Transit Systems (MRTS) on Changing Urban Landscape: A Remote Sensing Based Study of Delhi Metro at 16th World Conference on Transport Research, Montreal, Canada (online) on 18 July 2023.

Vaibhav Puri presented and won the best paper award for paper titled 'Effects of Mass Rapid Transit Systems (MRTS) on Changing Urban Landscape: A Remote Sensing and Difference-in-Difference Based Study of Delhi Metro' presented at 3rd Pritam Singh Memorial (PRISM) Conference 2023 hosted by Birla Institute of Management Technology, Greater Noida, India held on November 17-18-19, 2023.

National/International MoUs/MoAs Signed

The Memorandum of Agreement (MOA) with Western Connecticut State University, Danbury Connecticut, United States signifies a pivotal step towards fostering collaboration and academic exchange was signed on January 26, 2024. The key areas of cooperation include discussions on joint initiatives, proposal development for external funding, and exploration of opportunities for idea exchange. Additionally, both institutions aim to enhance academic development through joint conferences and seminars while ensuring compliance with relevant regulations and intellectual property rights.

SGGSCC and Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching Ministry of Education, Ramanujan College, University of Delhi signed the Memorandum of Understanding (MOU) to conduct an online short term programme on AI in March 2024 and online one-week FDP program on Open Source Tools in September 2023 for teaching faculty of University of Delhi.

Other Inter-Institutional Collaboration

Faculty Development Programme was conducted on Advance Research Techniques in Social Sciences in collaboration with Mahatma Hansraj Faculty Development Centre (A Centre of MoE, Govt. of India, under PMMMNMTT Scheme) Hansraj College, University of Delhi.

Placement Details

Number of students placed: 360

Number of Companies visited for campus recruitment: 76

Extension and Outreach Activities

Throughout 2023-24, the college demonstrated an unwavering commitment to extension and outreach activities, fostering holistic development and societal impact. The National Service Scheme (NSS) unit spearheaded with their long term project focused on women empowerment, She-Unit coordinated a sanitary pad donation drive in collaboration with the Pinkishe Foundation on October 11, 2023 (International Girl child Day).

NSS also orchestrated a self-defense workshop named RAKSHA on December 13, 2023, inviting a proficient instructor to impart valuable self-defense skills to young girls.

To celebrate Children's Day, NSS visited Kilkari Rainbow Home on 14th October 2023 and provided stationery, books, notebooks, school bags to help them use the transformative power of education.

The Rotaract Club, in collaboration with the Shubhkarman Organisation, organized Udaan 2.0, a year-long initiative started in October 2023 aimed at educating underprivileged children in the Shalimar Bagh slum area. With a firm belief in education, they offered students from the slum community an opportunity to improve their own lives and those of their families

Additionally, the Rotaract Club's efforts, including the Sarbat Da Bhala Gurudwara Sewa Drive and Nanhe Kadam-Balwadi Visit; and noteworthy events like the Pad Donation Drive by Unnat Bharat Abhiyan exemplified a dedication to social service and educational outreach.

Library Development

The students team developed an internal website for accessing the e-resources. To enhance e-learning, a workshop on “Accessing E-Resources” was conducted by the Library Committee in collaboration with the Department of Computer Science for the faculty and students.

Faculty Strength

Senior Professor/Professor/Director: 11

Associate Professor: 26

Assistant Professor: 34

Ad-hoc.: 2

Guest: 14

Financial Allocation and Utilization

Grant Allocated: ₹ 28.62 crores

Grant Utilized: ₹ 27.78 crores

SRI GURU NANAK DEV KHALSA COLLEGE

Major Activities and Achievements

One of the major milestones this year was the successful implementation of ERP modules across various departments of the institution. The ERP system has streamlined the Admission, Attendance, and Internal Assessment processes for better administrative management.

The Placement Cell organized the Annual Job Fair “Embarkation 3.0” which had an impressive footfall of over 700+ students from various colleges like SRCC, Hindu, VIPS and many more. The Cell onboarded Mama-Earth which visited the DU Campus for the first time to recruit freshers. 20 companies visited the college for the same. Approximately 650 students applied for different job profiles and 353 students were shortlisted by the visiting companies.

Honours/Distinctions

Faculty

Ashish Thomas, Assistant Professor Studies in the Department of Environmental Studies joined as Associate Editor of Herpetology Notes, a Scopus indexed Q3 journal, published by Societas Europaea Herpetologica. He was also awarded membership of Societas Europaea Herpetologica a European society of Herpetologists having around 350 members from across the world.

Students

The college has been doing exceedingly well in the sports and field events. The following students brought laurels to the college this year :

Anshuman Dabas, 80-86, participated in inter- college boxing competition and won the bronze medal.

Narayan Sharma (Wrestling FS 57KG) participated in inter college Wrestling competition and won the gold medal.

Paramjeet Singh Rawal won Gold in National Strong Powerlifting federation and also in WPC Delhi and Haryana Interstate championships. In the tournament organized by Powerlifting Association of Delhi he also won the gold medal.

Priyanshu Dahiya, 86-92kg, participated in inter- college boxing competition and won the silver medal.

Yugraj Maan (Wrestling FS 74KG) participated in North East Zone Inter University Wrestling Championship and won the gold . He was also placed 10th and selected for All India University Championship.

Publications

Scopus indexed Journals

Kaur, H. (2023). Displacement of the Song: A Study of Pather Panchali. IUP Journal of English Studies, 18(2).

Srigyan, M., Samad, A., Singh, A., Karan, J., Chandra, A., Sinha, P.G., Kumar, V., Das, S., Thomas, A. and Suyesh, R. (2024). Vocal repertoire of *Microhyla nilphamariensis* from Delhi and comparison with closely related *M. ornata* populations from the western coast of India and Sri Lanka. PeerJ, 12, e16903.

UGC Care-list indexed Journals

Singh, M. (2023). Chihan Vigian Ate Russi Pranpra. *Abriu*, 2(2), 134-137.

Singh, M. (2023). Sheela Bhatia Da Opera: 'JUGNI' Da Sabhiacharak Adhiain. *Abriu*, 1(1), 202-205.

Seminars Organized

Prof. Krishan Kumar Kaushik, Professor in Hindi department at Jamia Millia Islamia University, Prof. Rekha Sethi, Professor IP College, University of Delhi and Prof. Indu Varendra, Professor at Hindi Department Jamia Millia Islamia, Bhartiye Gyan Parampara aur Hindi Sahitya, February 21, 2024.

Professor Peeyush Chandra, Professor (Retd.) Department of Mathematics & Statistics, IIT Kanpur, Mathematical Modelling and Simulation, February 17, 2024.

Mohd. Aadil, Softskills traniner ICT Academy, Presentation Skills in Classroom in Collaboration with ITC Academy , January 10, 2024

Mr. Manpreet Singh, Road Safety Coordinator, Traffic Training Park C.P. Delhi, Skill Development and Road Safety, November 13, 2023

Prof. Radhey Shyam Sharam, Professor in Env. Studies, University of Delhi, Prof. Gita Bhatt, Professor & Director NCWEB and Prof. Sanjeev Kumar, Professor at Zakir Hussain College (Evening), One-day Faculty Workshop on VAC Paper: Culture and Communication , October 23, 2023.

Conferences Organized

Two-day International Conference on ‘Ghadar Movement and the Role of the Indian Diaspora in India's Freedom Struggle’ in collaboration with Diaspora Research and Resource Centre of ARSP, supported by the Ministry of External Affairs, Diaspora Research and Resource Centre of ARSP, supported by the Ministry of External Affairs & SGND Khalsa College on February 23, 2024.

Seminar/Conference Presentations (National/International)

Ashish Thomas presented a research paper titled ‘Influence of stream habitat variables on distribution and abundance of tadpoles of the endangered Purple frog, *Nasikabatrachus sahyadrensis* (Anura: *Nasikabatrachidae*) and implications on its conservation’ at the European Congress of Herpetology, held at University of Wolverhampton, UK from September 4-9, 2023.

Bhagwant Kour presented a paper in the International Conference “Identity Politics and its Implications in the 21st Century at Bijoy Krishna Girls College, Howrah.

Deep Mala presented a research paper on the topic “Bhartiya Sanskriti Aur Cinema” In the Two days interdisciplinary international Seminar on the theme "Diversity Landscape of Indian Culture: Continuity with Change" in ARSD College, University of Delhi on February 8-9, 2024.

Neeti Goel presented a research paper on ‘Controlling Chaos In Elliptical Hill Problem: Chaos and Its Control’ in International Conference on Advances in Pure & Applied Mathematics (ICAPAM): Vision India @ 2047 at Shyam Lal College, University of Delhi on February 8-10, 2024.

Nidhi Sharma presented a paper at a two day Interdisciplinary International Seminar on “Diverse Landscape of Indian Culture: Continuity with Change” organised by ARSD College on February 8-9, 2024.

Nidhi Sharma presented a research paper at Two Day International Conference, ‘Ghadar Movement and the Role of Indian Diaspora in India’s Freedom Struggle’, organised by SGND Khalsa College In collaboration with Diaspora Research and Resource Centre of ARSP on February 23-24, 2024.

Satish Kumar presented a research paper on ‘Sri Guru Nanak Dev Bani Vich Shahdat ate Pratirodh Da Parvachan’ at Panjab University, Chandigarh at Three Day World Punjabi Conference, on February 17, 2024.

Shikha Garg presented a research paper on ‘An Investigation into Effect of Persuasion Knowledge Recognition in case of Product Placement in News on Consumer Perceptions" in Two days International Conference Organized by Kyiv National Economic University named after Vadym Hetman, Ukraine in collaboration Trade-preneur Global Research Organization, UK on February 24-25, 2024.

Shikha Garg presented a research paper on “An Investigation into Consumer Attitude towards Product Placement in News: Effect of Recognition, Ethical Concerns and Regulation Requirement” in Two days International Conference in Global Progress, Local Actions: Aligning Business and Management Practices with SDG Agendas organized by Department of Commerce, Christ (Deemed to be University), Bangalore Central Campus on February 19-21, 2024.

Simran Kaur Sethi presented a paper on the topic ‘Banda Singh Bahadur : Praptiyan ate Safar-e-Shahdat’ in Punjabi university, World Conference, February 2024.

National/International MoUs/MoAs Signed

An MoU was signed with the ICT Academy for the academic year 2023-24 in April, 2023 in order to collaborate on the development of skill sets for the faculty as well as the students of the college through FDPs and Short term courses for the students.

An MoU was signed with Saksham, a NGO.

An MoU was signed with Bhopal School of Social Sciences and Anand School of Social Work, Anand.

An MoU was signed with Youth for SEVA a Bangalore based Nation-Wide Volunteering Movement.

An MoU was signed with Antra Rastriya Sahyog Parishad, Bharat.

Other Inter-Institutional Collaboration

The college collaborated with Diaspora Research and Resource Centre of ARSP, supported by the Ministry of External Affairs.

IQAC Collaborates with Following Institutes to standardize policies and procedures and to collectively workout the areas for better Academics and Administrations:

New Delhi Institute of Management

Ram Lal Anand College, University of Delhi.

Kalindi College, University of Delhi

JDM College, University of Delhi

Gargi College, University of Delhi

Mata Sundri College, University of Delhi

Daulat Ram College, University of Delhi

Sri Aurobindo College, University of Delhi.

Placement Details

Number of students placed: 87

Number of Companies visited for campus recruitment: 24

Extension and Outreach Activities

BISMAN, the Centre for Human Values conducts regular programmes and instils a sense of SEVA in the students by regularly visiting to various Gurdwaras for Langar seva.

The Girl Up Preet is an initiative to empower girls. The students of the society remained active throughout the year. On November 7, 2023 they visited the local Police Station where they gained practical insights into filing an FIR and understanding various law enforcement practices. On October 01, 2023, they took part in Stationary Distribution Drive. They visited Humara Shikshalaya NGO in Noida to interact with kids, distributing stationery items, and providing education. On December 1, 2023 Girl Up Preet collaborated with Paree Sanitary pads under “Pareevartan” to promote menstrual hygiene at SGTB Khalsa Girls Sr Sec School, distributing sanitary pads while educating and giving a voice to students to share their experiences.

PROJECT S.E.V.A.: In collaboration with Golden Lioness Club, Patel Nagar (NGO) in Delhi, the society organized a Visit to Flag Children Home on 29 November 2023 with a motive to educate children about bad touch and good touch.. A donation drive was organized in the Lohar Basti, Sarai Rohilla on 20 February, 2024. The team donated “HUMANITY HAMPERs” containing grocery items. Hampers were distributed amongst the economically weaker sections of the society.

Library Development

Faculty Strength

Associate Professor: 22

Ad-hoc: 41

Guest: 7

Grant Allocated: ₹ 32.04 crores

Grant Utilized: ₹ 28.02 crores

Major Activities and Achievements

The conduct of 10th edition of the Sahibzada Zorawar Singh and Sahibzada Fateh Singh Floodlight T20 Tournament bears testimony to the institute's promise to promote sportsmanship apart from various other sports events.

The GAD-TLC conducted more than 140 events including conferences, seminars and FDPs involving nearly 21,000 participants worldwide. These synergistic initiatives demonstrate the unwavering dedication of 142 full-time faculty members and 75 non-teaching staff to comprehensive education, cultural appreciation, and intellectual involvement.

Honours/Distinctions

Faculty

Parminder Kaur Narang was felicitated by the National Commission for Minorities, on International Women Day, for working with the Organization for the equality of Minorities in the Society, on March 8, 2024.

Ritwick Bhattacharjee was nominated for the 2023 Teaching Literature Book Award by Idaho State University for the book, *Science Fiction in India: Parallel Worlds and Postcolonial Paradigms*, edited by Shweta Khilnani and Ritwick Bhattacharjee.

Smita Mishra was bestowed with Pandit Yugal Kishore Shukla Award by SAARC Journalist Forum, India Chapter 2023.

Vimal Rarh represented SGTB Khalsa College along with the Principal in a delegation to United Kingdom at House of Lords, UK Parliament, United Kingdom hosted by Skills and Education Group (SEG); India coordinator for visit of Delegation of NPTC Group of Colleges, United Kingdom to SGTB Khalsa College on 31 August - 02 September, 2023 which interacted with Faculty members and students on pedagogical processes in teaching-learning and exploring academic collaborations.

Publications

Scopus indexed Journals

Din, S. N. U., Rishi, M. S., Kaur, L., Sidhu, N., & Ahluwalia, A. S. (2023). Mapping and identification of potential groundwater development zones of an alluvial aquifer in parts of Ghaggar and Upper Yamuna basins in India. *Environmental Monitoring and Assessment*, 195(8), 973.

Kaur, L., Rishi, M. S., Chaudhary, B. S., Sharma, S., & Pandey, S. (2023). Groundwater hydrogeochemistry and non-carcinogenic health risk assessment in major river basins of Punjab, India. *Environmental Science and Pollution Research*, 30(53), 113335-113363.

Yadav, T., Sinha, N., Sagar, P., Shukla, M., Kumar, R., & Kumar, B. (2024). Unveiling the role of vanadium doping in modulating morphological and electrical properties of piezoelectric Na_{0.46}K_{0.46}Li_{0.08}NbO₃ ceramics for energy harvesting. *Ceramics International*, 50(6), 8669-8680.

UGC Care-list indexed Journals

Kanojia, S., & Bhatia, B. S. (2023). Signaling Effect of Dividend on Firm's Future Performance: A Study of Select Emerging Economies. *Journal of Emerging Market Finance*, 22(4), 409-436.

Web of Science indexed Journals

Alnajar, M. H., Sinha, N., & Kumar, B. (2023). Remarkably enhanced piezoelectric and ferroelectric characteristics of Er: ZnO upon graphene addition for wearable self-powered piezoelectric sensors. *Materials Research Bulletin*, 161, 112149.

Kaur, S., Bharadvaja, A., & Baluja, K. L. (2023). Low to high energy electron interactions with AlCl. *The European Physical Journal D*, 77(7), 142.

Mayirnao, H.S., Gupta, S., Thokchom, S.D., Sharma, K., Mehmood, T., Kaur, S., Sharma, Y.P. and Kapoor, R., 2023. Nutritional assessment of *Lactarius drassinus* and *L. controversus* from the cold desert region of the Northwest Himalayas for their potential as food supplements. *Journal of Fungi*, 9(7), p.763.

Singh, C. K., Sodhi, K. K., & Singh, D. K. (2024). Understanding the bacterial community structure associated with the *Eichhornia crassipes* rootzone. *Molecular biology reports*, 51(1), 35.

Sodhi, K. K., Singh, C. K., Kumar, M., & Singh, D. K. (2023). Whole-genome sequencing of *Alcaligenes* sp. strain MMA: insight into the antibiotic and heavy metal resistant genes. *Frontiers in Pharmacology*, 14, 1144561.

Research Projects

Nachiketa Singh: Co-PI, ICSSR, Empowering Women through Capacity Building: Role of Common Service Centers in Rural Odisha [F.No. 02/ 141/GEN/2022-2023/ICSSR/RP/MN].

Nidhi Sinha: Defense Research and Development Organization. DRDO, CARS, Study on optimization of PMN-PT powder synthesis [Grant number. 1115/TS/SPL/CARS-101/23].

Sukanta Dutta: Co-PI, Erasmus+ European Union and DU , Resources for internalisation of higher education institutions in India RISHII [609609-EPP-1-2019-1-ES-EPPKA2-CBHE-JP].

Sukanta Dutta: Science and Engineering Research Board (SERB), Department of Science and Technology, Govt. of India, Probing New Physics Interactions [Grant No. CRG/2018/004889].

Vimal Rarh: UGC & Ministry of Education, Malaviya Mission Teacher Training Centre, a Centre of UGC & Ministry of Education allocated to SGTB Khalsa College [F.No. L-20 /2023 (MM-TTP)].

Seminars Organized

Prof. Satnam Singh Sandhu, Chancellor, Chandigarh University, SGTB Khalsa College, DU, Role of Minorities in Nation Building, September 4, 2023

Prof. M. Jagdish Kumar, Chairman, UGC, SGTB Khalsa College, DU, National Education Policy (NEP) and its objectives, September 27, 2023

Prof. Sanjay Kapoor, Head, Department of Plant Molecular Biology, University of Delhi, SGTB Khalsa College, DU, High throughput transcriptomics leading to the identification and delineation of a major developmental regulator, February 14, 2024

Prof. Bindu Puri, Professor Jawahar Lal Nehru University, Delhi, SGTB Khalsa College, DU, Gandhi for our times: Four central themes, March 11, 2024

Dr. Santosh George, Founder, Health Ashram, SGTB Khalsa College, DU, Ayurveda and Healthy Lifestyle, March 14, 2024

Conferences Organized

The long road ahead for Gender Equality, March 8, 2024

Power of Mathematical Modelling, February 27, 2024

The Literature of Exile: Dubravka Ugresic and East Central European Literature , February 1, 2024

Women's concerns and thoughts in Literature, December 1, 2023

Presence of Music in Literature, October 10, 2023

Seminar/Conference Presentations

Anupreet Kaur Mokha delivered a keynote Speaker : Delivered a talk on the topic “Empowering the Planet: Harnessing Renewable Energy and Clean Technologies” in First International Conference on Sustainable Science and Technology- 2023 (ICSST-2023) organized by Crep. Pvt. Ltd., Lucknow, UP, India on July 29-30, 2023

Bunny Singh Bhatia presented paper titled "The relationship between Human Capital Efficiency and financial performance of big Indian Companies " in the 3rd International Conference of GRFCG to be organized at the Constitution Club of India (New Delhi), themed as ‘Corporate Governance and Sustainable Development: Reflecting New Perspectives in Emerging Economies and Around the Globe’ on September 16-17, 2023.

Gaganpreet Kaur Chadha presented a paper (online) titled “Impact of Fiscal Deficit on Real Interest Rates: Evidence from 110 Countries” at ICSSR sponsored National Seminar on Political Economy of India’s Development Challenges: Celebrating 75 Years of India’s Independence organized by Govind Ballabh Pant Social Science Institute, Prayagraj from 25-26 Sep 2023; Presented a paper titled “Impact of Fiscal Deficit on Real Interest Rates: A Multi-Country Evidence” at the CESP Golden Jubilee Conference organized by the Centre for Economic Studies & Planning, School of Social Sciences, JNU from December 11-13, 2023

Guntasha Kaur Tulsi delivered a Talk for AIR Akashvani broadcast titled “March of the Nation”, broadcast January 16, 2024. <https://www.youtube.com/watch?app=desktop&v=z0qSEoczJJ0>

Nidhi Sinha presented a paper titled ‘Enhancement in optical, mechanical, thermal and electrical properties of organic crystals by selective dye doping’ in International Conference on Crystal Growth and Epitaxy (ICCGE-20, ITALY) at University Campus San Giovanni a Teduccio, Naples, Italy held between July 30 to August 4, 2023

Ravinder Kaur Bedi presented a paper on ‘Punjabi bhasha and Punjabiyyat’ at the 16th World Punjabi Conference 2024 organized by the Indian Institute of Management Rohtak with Jagat Punjabi Sabha, Canada, at the United Service of India Auditorium, New Delhi, on February 25, 2024.

Sakeena Shahid presented a paper titled “Predicting Depth of Anesthesia using EEG Signals and Deep Convolution Network” at the 3rd International Conference on AI-ML Systems, Bengaluru from October 25-28, 2023.

Shivam Shrivastava presented a paper at an international conference entitled ‘Finding a vision of development for the Adivasis in the Maoist affected areas of South Baster’ on the theme ‘State and Society in Pre-Colonial and Post-Colonial India: A Retrospect’ organized by School of Liberal Arts and Humanities in collaboration with Dipesh Chakrabarty Chair Professor of History and Centre of Excellence-South Asian Studies, Woxsen University, Hyderabad, India In collaboration with the University of Southampton, the United Kingdom and Centro De Estudios De Genero, Mexico on February 20, 2024.

Surinder Kaur delivered a talk on ‘Sustainable approach to manage agro-waste through cultivation of edible Mushrooms’ at the Joint Conference of 5th International Conference on Biosciences and Medical Engineering & 2nd International Conference on Innovative Agricultural Technology held at Four Point by Shewreton, Ungasan-Bali, August 30-31, 2023

Vimal Rarh delivered keynote address at International Conference on Educational Technology and Global Sustainability organised by University Institute of Teachers Training and Research, Chandigarh University on 2nd to 3rd Feb 2024.

National/International MoUs/MoAs Signed

Memorandum of Understanding (MOU) made on July 15, 2023 for a period of three years between Guru Angad Dev Teaching Learning Centre (GAD-MMTTC) and **Skills And Education Group, United Kingdom** to develop co-operation and to promote mutual understanding with a view to establishing a partnership for the joint / independent delivery of identified teacher education and vocational education programmes as per RQF Levels of England and Wales accredited and certified by Skills and Education Group, Developing joint projects such as creating a repository of e- learning resources that are duly validated and available for access by a wider group of trainers for delivery of courses.

Memorandum of Understanding (MOU) made on April 24, 2023 for a period of Three Years between Guru Angad Dev Teaching Learning Centre (GAD-MMTTC) and Guru Nanak Girls College, Santpura, Yamuna Nagar to enhance the capacity building of faculty members / research scholars and other students by organizing Joint Events as Seminars/ Webinars / Conferences / Faculty Development Programs (FDPs) /Workshops/ Training/ Certificate Program.

Memorandum of Understanding (MOU) made on April 25, 2023 for a period of Three Years between Guru Angad Dev Teaching Learning Centre (GAD-MMTTC) and St. Francis Institute Of Management and Research, Mt. Poisar Road, Mumbai to enhance the capacity building of faculty members / research scholars and other students by organizing Joint Events as Seminars/ Webinars / Conferences / Faculty Development Programs (FDPs) /Workshops/ Training/ Certificate Program.

Memorandum of Understanding (MOU) made on April 25, 2023 for a period of Three Years between Guru Angad Dev Teaching Learning Centre (GAD-MMTTC) and Shayadri Shikshan Seva Mandal's Arts and Commerce College, Maharashtra to enhance the capacity building of faculty members / research scholars and other students by organizing Joint Events as Seminars/ Webinars / Conferences / Faculty Development Programs (FDPs) /Workshops/ Training/ Certificate Program.

Memorandum of Understanding (MOU) made on April 26, 2023 for a period of Three Years between Guru Angad Dev Teaching Learning Centre (GAD-MMTTC) and K. J. Somaiya College Of Science & Commerce, Vidyanagar, Mumbai to enhance the capacity building of faculty members / research scholars and other students by organizing Joint Events as Seminars/ Webinars / Conferences / Faculty Development Programs (FDPs) /Workshops/ Training/ Certificate Program.

Memorandum of Understanding (MOU) made on May 29, 2023 for a period of Three Years between Guru Angad Dev Teaching Learning Centre (GAD-MMTTC) and Vasantrao Naik Govt. Institute of Arts and Social Sciences, RBI Square, Nagpur to enhance the capacity building of faculty members / research scholars and other students by organizing Joint Events as Seminars/ Webinars / Conferences / Faculty Development Programs (FDPs) /Workshops/ Training/ Certificate Program

Memorandum of Understanding (MOU) made on June 1, 2023 for a period of Three Years between Guru Angad Dev Teaching Learning Centre (GAD-MMTTC) and St. Xavier's Institute of Education (Autonomous), Mumbai to enhance the capacity building of faculty members / research scholars and other students by organizing Joint Events as Seminars/ Webinars / Conferences / Faculty Development Programs (FDPs) /Workshops/ Training/ Certificate Program

Memorandum of Understanding (MoU) made in 2023 between Gitarattan International Business School affiliated to Guru Gobind Singh Indraprastha University and SGTB Khalsa College, University of Delhi to foster academic collaboration, opportunities for global experience and to facilitate advancement of knowledge on the basis of reciprocity, mutual benefits and frequent interactions.

A Memorandum of Understanding (MoU) made on May 19, 2023 between the Centre for Disability Research and Training (CDRT) of SGTB Khalsa College with the CDRT, Kirori Mal College to promote Disability Studies and figure out ways by which the campus can be more inclusive to persons with disability.

Placement Details

Number of students placed: 155

Number of Companies visited for campus recruitment: 50

Extension and Outreach Activities

The NSS unit of the college undertook the following activities during the session:

Project Sehat: A maternity and child welfare center visit was conducted on April 11, 2023, to promote the significance of health care and health education. A documentary screening was held to celebrate 'Angdaan Mahotsav' on Indian Organ Donation Day and an appreciation box activity was held on World Mental Health Day. Under the Arogya Abhiyan campaign of Project Sehat, a blood donation camp was set up with the Indian Red Cross Society organization; a workshop on cancer and a session on diabetes were organized.

Project Dhara: Clean Green Feed 3.0 was organized on May 6, 2023, facilitating garbage collection and serving the street animals. A workshop on 'Plantation and Composting' by Dr. Santosh George, and one on segregation and awareness was organized on June 7, 2023. A seed collection drive was conducted in March and June. Under the 'Meri Maati Mera Desh' campaign, the NSS volunteers pledged for India's soil and valor while also participating in a wall painting event at MCD South Zone. An Amrit Kalash Yatra along with a campus plantation drive, was conducted on October 13. The 'Har Ghar Tiranga' campaign and 'flag hoisting' along with Prabhat Pheri were organized on the occasion of Independence Day.

Project Khwahish: The NSS unit visited a blind school and an old age home in April and June 2023, conducted a campus survey on International Girl Child Day, and organized an annual donation drive in September, distributing the proceeds to the Rose Udaan shelter home.

Project Seekho: A talk on artificial intelligence was organized on May 17, 2023, and a webinar on "laptop lifestyle" was organized with Mr. Rohit Soni to promote digital awareness. A special screening of the inauguration ceremony of the semiconductor project by the Prime Minister was organized by the NSS unit. On Samvidhan Diwas, online preamble reading and an online quiz were organized.

Project Jeev: As an inaugural ceremony for the project, a documentary screening was organized in partnership with World Animal Protection to raise awareness about animal welfare. A "Vocal for Local" animal survey was organized to gather data on stray animals.

Other events: The 27th National Youth Festival, organized on National Youth Day, featured events, cultural programs, exhibitions, and adventure activities on January 12. Awareness drives were conducted on Voters' Day, and Republic Day was celebrated on January 26 with the NCC unit. Several events were organized under 'Viksit Bharat' like the Voice of Youth campaign, marathon runs, etc. The NSS unit participated in the standee competition organised by the University of Delhi as part of the 66th Annual Flower Show. The ERO Voter Centre, Timarpur, established a voter ID card desk on college premises to assist eligible youths in enlisting in the electoral roll on November 25. The Electoral Literacy Club conducted, a survey to gauge the number of young voters with voter ID cards for the upcoming elections, a documentary screening to raise awareness, a pledge-taking ceremony, and an EVM mock.

The team of CDF KHALSA volunteered in the G20 campaign, being a part of the organising committee of the Changemakers20 Summit held in August 2023 under the Youth India Initiative by CDF INDIA, having 100+ keynote speaker sessions from all across the globe, sharing gainful insights on sustainability and environment protection.

On January 12th, a screening of the 27th National Youth Festival showcased Prime Minister Narendra Modi's live speech on youth empowerment. The college displayed standees advocating Viksit Bharat@2047, with over 100 students registering and sharing visions for a sustainable, harmonious, and transparent Bharat by 2047. The Department of Mathematics, NSS, and NCC organized a marathon on January 20 to symbolize unity and progress. On January 25, a campus survey and discussion on National Voters Day emphasized active participation in the democratic process. On January 26, Republic Day celebrations included flag hoisting, cultural performances, and a pledge ceremony. Business Café hosted a magazine cover-making competition on January 31 and the NSS, a stock market webinar, on February 4. Commerce Society, COMSOC, held a Business Conclave on February 7, featuring distinguished speakers discussing Viksit Bharat, while the Sahibzada Zorawar Singh and Sahibzada Fateh Singh Floodlight T20 Tournament promoted sportsmanship and equality.

The NSS and NCC organized blood donation camps, resulting in 62 units of blood from donors, to empower individuals and provide safe and quality blood to save lives. The NSS also hosted a workshop on "Navigating Cancer" to promote cancer awareness and healthy lifestyles. On March 5, 2024, the NSS and Diabetes Fighters Trust organized a seminar and case competition on 'Diabetes Prevention and Management' to raise awareness and problem-solving skills. The NSS organized a desk to encourage female students to participate in the University of Delhi's Nari Shakti Conclave on March 7, 2024, in honor of International Women's Day.

The Humanities and Social Sciences Society, Manviki, hosted its inaugural event on March 15, 2024, on the eve of Lashkara'24, featuring Rapid Fire: Viksit Bharat 2047 Edition and Virasat Ki Khoj: Talent Hunt, promoting intellectual stimulation and artistic expression. DASTAAN, the college's Department of History, organized a "Viksit Bharat" event to promote historical consciousness for a progressive India by 2047, while the Department of Mathematics conducted a workshop on typesetting Indian languages using LaTeX.

The NCC unit of SGTB Khalsa College undertook following activities during the session. Saragarhi Day was celebrated to celebrate the valour of the mighty Sikhs on the 12 September, 2023. Swachhata

Pakhwada, Ek tareekh Ek ghanta Ek saath a cleanliness drive was organised on October 1, 2023 by our Khalsa NCC Coy Letter Writing event was organised by our Khalsa NCC Coy on October 25, 2023.

Library Development

Mata Gujri Library - The annual library budget for the year 2023-2024 was ₹ 13.0 lakh. 1602 books were added during this financial year. This brings the total number of books to about 145933. The library is connected to Delhi University wide area campus networking system and provides access to electronic resources to its users from Delhi University Library System (DULS) and UGC-INFONET Consortium. Millions of e-resources are accessible remotely to the faculty as well as through DULS and N-LIST.

The library is computerized and books are bar-coded and made easily accessible through OPAC (Online Public Access Catalogue). The library has gate security check system with 32 CCTV cameras installed to monitor. The library preserves all the editions of the college magazine “THE TEGH” with the first edition published in 1953.

Faculty Strength

Senior Professor/Professor/Director: 29

Associate Professor: 42

Assistant Professor: 69

Ad-hoc:2

Guest: 17

Financial Allocation and Utilization

Grant Allocated: ₹ 82.92 crores

Grant Utilized: ₹ 71.40 crores

SRI VENKATESWARA COLLEGE

Major Activities and Achievements

The college ranked 13 all over India by the NIRF. It was ranked 7th by Education World in the ‘Non Autonomous College’ ranking 2023-24. The college was chosen to be the 8th amongst 26 colleges selected for showcasing the essence of Delhi University during the university’s centenary celebrations held in June 2023.

The college fosters collaborative research with faculty being actively involved in many international tie-ups such as the UNESCO Silk Roads Youth Research Grant; Research Council of Norway; and the ‘Y20 India Chaupal’ wherein delegates from France, Australia, Canada and Y20 Secretariat were welcomed to the college. In 2023-2024, two faculty research projects amounting to around ₹ 70 lakhs were sanctioned by the Ministry of Education, Government of India.

Several outreach activities such as ‘Milk Distribution Drive’, cleanliness and tree plantation drives were held. In 2023-2024 the college collected and recycled around 1000 kilograms of paper waste.

Honours/Distinctions

Faculty

Vartika Mathur worked as a visiting Scientist in the Department of Biochemistry at the Max Planck Institute for Chemical Ecology, Jena, Germany from August 1, 2023 to September 30, 2023.

Vartika Mathur joined Board of Advisors, Princeton Foundation for Peace & Learning– India on November 7, 2023.

Publications

Scopus indexed Journals

Prasad, K. (2023). The genus *Platanthera* (Orchidaceae) in India with two new species. *Rheedea*, 33(2), 31-52.

Prasad, K., & Sadasivaiah, B. (2023). Rediscovery of *Heterostemma beddomei* (Apocynaceae, Asclepiadoideae) after its type collection in India over more than 150 years ago. *Journal of the Indian Association for Angiosperm Taxonomy*, 33(1), 17–21.

Verma, K., Sinha, P. G., Sharma, G., Agarwal, S., Verma, A., & Mathur, V. (2023). Rhizosphere–plant–microbial system under polycyclic aromatic hydrocarbons-induced stress. *Current Science*, 125(8), 837-845.

UGC Care-list indexed Journals

Asalla, A., Ravi, G., Veeranjanyulu, D., & Kothareddy, P. (2023). *Zeuxine longilabris* (Orchidaceae)–An addition to the orchid flora of Telangana state, India. *Nelumbo*, 160-161.

Budhiraja, S., Yadav, M., & Rathi, N. (2024). Multi-level outcomes of learning organisation: a bibliometric analysis and future research agenda. *Journal of Organizational Effectiveness: People and Performance*, 11(2), 282-306.

Seenivasan, S. (2023). *Thamizharin Paarmbariya UnavupPanpaadu: Siruthaaniyankalai Munvaitththu* (Traditional Food Culture of Tamil People: With special Reference to Millets). *Thamizhananku: International Research Journal of Tamils Literary, Religion & Culture, Madurai*, 1, 39-56.

Siddabathula, N., Kumari, P., Vivek, C. P., Kothareddy, P., Chorghe, A. R., Chowdhury, S. D. & Prasanna, P. V. (2023). Endemic Grasses of India. *Nelumbo*, 65(1), 278-288.

Thakur, M., Yadav, M. and Mitali, S. (2023). Employee Gratitude During COVID 19: An Empirical Study on HR Roles. *Journal of Management and Entrepreneurship*, 17(2), 13-27.

Web of Science indexed Journals

Gadre, S. S., Singh, B., Tripathi, A., Malinen, E., & Pandey, A. (2023). An investigation of luminescence properties of CaF₂: Dy nanophosphor irradiated with gamma rays and low energy proton beams. *Applied Radiation and Isotopes*, 197, 110821.

- Goyal, N., Amar, A., Gulati, S., & Varma, R. S. (2023). Cyclodextrin-based nanosponges as an environmentally sustainable solution for water treatment: a review. *ACS Applied Nano Materials*, 6(15), 13766-13791.
- Gulati, S., Baul, A., Amar, A., Wadhwa, R., Kumar, S., & Varma, R. S. (2023). Eco-friendly and sustainable pathways to photoluminescent carbon quantum dots (CQDs). *Nanomaterials*, 13(3), 554.
- Gulati, S., Choudhury, A., Mohan, G., Katiyar, R., MP, M. A. K., Kumar, S., & Varma, R. S. (2023). Metal-organic frameworks (MOFs) as effectual diagnostic and therapeutic tools for cancer. *Journal of Materials Chemistry B*, 11(29), 6782-6801.
- Gulati, S., Vijayan, S., Kumar, S., Harikumar, B., Trivedi, M., & Varma, R. S. (2023). Recent advances in the application of metal-organic frameworks (MOFs)-based nanocatalysts for direct conversion of carbon dioxide (CO₂) to value-added chemicals. *Coordination Chemistry Reviews*, 474, 214853.
- Jain, V., Akhtar, J., Priya, R., Sakhuja, P., Goyal, S., Agarwal, A. K., ... & Gautam, P. (2023). Tissue proteome analysis for profiling proteins associated with lymph node metastasis in gallbladder cancer. *BMC cancer*, 23(1), 402.
- Jena, M., Sen, D., Zulfequar, M., Asokan, K., & Pandey, A. (2023). Study of the thermoluminescence properties of γ and UV-C irradiated Li₃PO₄: Dy synthesized by solid state diffusion method. *Journal of Alloys and Compounds*, 955, 170077.
- Kalra, S., Taneja, C., & Singhal, N. (2023). Participation in online health communities: Decoding the antecedents and outcomes. *Asia Pacific Journal of Health Management*, 18(2), 176-186.
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Research Projects

Anant Pandey: Indo-Norwegian Project by the Department of Science and Technology, New Delhi, “NANODOS- Synthesis of nano-phosphors and spin-trapping nano-crystals as energy-independent dosimeters for radiotherapy beams” , ₹ 32,55,211.

Pankaj: Indian Council of Social Science Research, Ministry of Education, Govt. of India, , Impact of Tourism on Local Communities and Ecology of Selected High-altitude Lakes of Himachal Pradesh, ₹ 15,00,000.

Vandana Malhotra: Department of Biotechnology (DBT), Government of India, , Understanding the role of Ser/Thr protein kinases in the regulation of toxin-antitoxin loci in *Mycobacterium tuberculosis*, ₹ 125,00,000.

Vartika Mathur: Core Research Grant-SERB, DST New Delhi , Exploring the biocontrol potential of endophytes from commercial and resistant *Brassica juncea* against *Albugo candida*: insights into biochemical, molecular and gene expression mechanisms, ₹ 51,29,696.

Vartika Mathur: Indraprastha Gas Limited (IGL), Scientific monitoring of reforestation project at Barapullah Drain area, ₹ 19,25,000.

Patents Filed/Granted

Electrically Small Circularly Polarized UWB Intraocular Antenna System For Retinal Prosthesis; Patentee 1. Vikrant Kain 2. Binod Kumar Kanaujia 3. Hari Singh 4. Sarita Ahlawat

A Textile Material Based Wideband MIMO Antenna; Patentee 1. Hari Singh 2. Binod Kumar Kanaujia 3. Vikrant Kain 4. Neha Verma.

Seminars Organized

Prof. Jong Pil Park , Department of Food Science and Technology, Chung-Ang University, South Korea, Sri Venkateswara College, Interface Engineering of Functional Electrode for Label Free Detection of Biomarker and Virus, February 15, 2024.

Prof. Sarita Passey, Professor, Zakhir Hussain Delhi College, DU, -, Lab Safety Guidelines, January 20, 2024.

Mr. Vijay Bedi, Bedi Brothers (Wildlife Filmmaker), Importance of Wildlife Filmmaking, June 2, 2023.

Dr. Satendra Kumar, Researcher, Institute of Indian and Oriental studies, University of Zurich, Switzerland, -, Itihas and Samaj: Caste in North India , February 2, 2024.

Prof Ram Singh, Senior Professor, Department of Economics, Delhi School of Economics and Director, Delhi School of Public Policy and Governance , -, Who should pay Income Tax and How Much? A Political Economy Perspective, April 18, 2023.

Conferences Organized

Metaphor, English Literary Association held on January 29, 2024.

Seminar/Conference Presentations

Anant Pandey presented a paper on “Investigating the potential of thermoluminescent nanophosphors in ion beam dosimetry” at 7th International Conference on Nanostructuring by Ion beams (ICNIB 2023), University of Petroleum and Energy Studies (UPES) Dehradun (jointly organized by the Inter-University Accelerator Centre, New Delhi), India on November 2-4, 2023.

Antima Sharma, Department of Commerce presented a Research Paper on “Corporate Governance and Value Relevance of Fair Value Estimates: An Artificial Intelligence and Machine Learning Approach” in the National Conference (Online Mode) Innovative Research and Practices in Commerce, Management and Social Sciences for Sustainable Growth (IRPCM 2024) from April 3-4, 2024.

Madhu Raina, Department of Botany, Sri Venkateswara College presented a paper on "Cytochemical aspects of stigma vis-à-vis fruit set in *Kigelia pinnata*(Jacq.) DC." at Two-days virtual International conference on ‘Bioinformatics in Biology: From Pre-requisite to Post-requisite’ organized by Department of Botany, Gargi College, University of Delhi and funded by Department of Biotechnology, Government of India from March 2 to March 3, 2024.

Manoj Thakur presented a Poster in 28th International Conference on Nuclear Tracks and Radiation Measurements” entitled on “Potential of Nanoparticles as a new approach for nematode control: a review”, held at Gurugram University ,Gurugram.

Manvi Singh, Department of English presented a paper on “Breaking Stereotypes on Screen: Subverting Caste Narratives in Contemporary Hindi Cinema" at the 17th Annual Conference on Asian Studies (ACAS) Interpretation and Misinterpretation organised by Department of Asian Studies, Faculty of Arts, Palacký University Olomouc. Olomouc, Czech Republic, from November 24-25, 2023.

Mohini Yadav participated in the 83rd Annual meeting of Academy of Management (AOM) 2023 held in Boston, Massachusetts, USA and presented on the topic –“Outcomes of Learning Organisation: A Bibliometric Analysis and Future Research Agenda on August 7, 2023.

Neha Singhal, Department of Commerce presented a paper on “Exploration into adoption factors of electricvehicles with environmental consciousness asmoderator in India” organized by 9th Annual International Commerce Conference, The Department of Commerce, Faculty of Commerce and Business, Delhi School of Economics, University of Delhi in collaboration with Deen Dayal Upadhyaya College and

in association with Indian Accounting Association, Delhi Chapter on the theme “Viksit Bharat in Amrit Kaal” on March 14-15, 2024.

Rahul presented a paper titled " Enhancing Real-Time Power Quality Monitoring: A Comprehensive Study on Feature Selection and Performance Analysis of Random Forest Classifiers " at the International Conference on Computational Intelligence and Smart Technologies in Electrical Engineering (CISTEE 2023), organised by Department of Electrical Engineering, National Institute of Technology, Durgapur during December 16-17, 2023.

Ranjane Aron, Anuvrinda Sharma, Indraneil Das and Robin Suyesh from Department of Environmental Sciences presented on “A ‘telescopic’ perspective on amphibian behaviour through the use of bioacoustics: A case study of the Harlequin tree frog (*Rhacophorus pardalis*) from Borneo, Malaysia” at 22th European Congress of Herpetology, held at University of Wolverhampton, United Kingdom from September 4-8, 2023.

Vinita Kapoor, Department of Chemistry, presented a paper on “Role of Technology in 21st century Education: A Paradigm Shift in Pedagogy " at Online International Conference-Sustainable Education with NEP 2020 and SDGs 2030 organized by Post Graduate Government College for Girls, Chandigarh and Consortium for Advancing Indian Tertiary Education (CITE) on 24-25 July, 2023.

National/International MoUs/MoAs Signed

Pherobank Technologies Private Limited, J&K -2024 (5 Years) To establish scientific collaboration through research, capacity and academic cooperation.

Ferdowsi University of Mashhad, Iran -2023 (5 years) To promote the development in the field of human resources training, scientific research and technology transfer.

ICT Academy -2023 (1 year) Agreement to offer services to faculty members and students of the college in the areas of information and communication technology.

Other Inter-Institutional Collaboration

Vartika Mathur – Sri Venkateswara College with Dr. Rashmi Bhardwaj, Centre for Medical Biotechnology, Maharshi Dayanand University, Rohtak, Haryana.

Student under Exchange Program (Inbound/Outbound)

Exchange under SVC-Nordic Centre of India (NCI)

Mr. Mads Nørgaard Højer from July 2023 - December 2023

Placement Details

Number of students placed: 182

Number of Companies visited for campus recruitment: 46

Extension and Outreach Activities

Release of Short Documentary on Round Glass Sustain platform: ‘Robin Suyesh and frogs of Delhi-NCR’ May 2023.

Release of Short Documentary on Wildlife Trust of India platform: 'The vanishing croaks of Delhi-NCR' – February 2024.

The Women Development Cell of Sri Venkateswara College conducted Gender Sensitization Sessions called 'Time to Talk' with students at the secondary level in Government schools across New Delhi.

Enactus SVC currently has 80 members working on 3 different projects under 7 different departments. Their major activities included: Mitti to Matka Campaign was designed to educate students about sustainability principles and Paper Collection Drive aimed at promoting recycling and waste reduction was organized.

Aaghaz: Organized in February 2024, the event featured a series of inter-college competitions, ENTalk, engaging stalls- a two-day event centered around the theme 'Turning All Hearts Yellow' to promote social and environmental awareness.

Street rally on "Stop Elder Abuse" was organized by Eco-Club, SVC at Satya Niketan on August 28, 2023. It was to sensitize the community on the issues of elderly rights and care giving

Each One Teach One was organized by Eco-Club, at Community center in SVC slum at Satya Niketan behind Sri Venkateswara College on 30 August, 2023.

Green School Initiative is conducted under an MoU with AIIMS, New Delhi to sensitize children on the issue of Air Pollution and respiratory health.

CDF SVC run Project Roshni, Project Perna and Project Angrezi Vartalap, contribute to multiple United Nations Sustainable Development Goals (SDGs) such as no poverty, good health and well-being, quality education, gender equality, decent work and economic growth, reduced inequalities, and partnerships for the goal.

The Extension Society, Department of Commerce, Sri Venkateswara College, University of Delhi organised a seminar on the topic "The complete guide to IIM's and CAT" on September 15, 2023 to make the students aware about various domains available under an MBA and what to pursue after doing an MBA. 'Food Distribution Drive' on October 2, 2023 was successfully completed to address immediate hunger and food insecurity in the community and focussed on contributing to the overall well-being and health of the community.

Milk Distribution Drive" was organized on October 17, 2023 to alleviate immediate hunger and food insecurity within the community, with a strong focus on enhancing the overall well-being and health of the community, in alignment with SDG 3 objectives. Further, they conducted a "Mega Distribution Drive" on November 7, 2023 to emphasize the importance of education, in alignment with SDG 4 (Quality Education) objectives.

NSS SVC organised a seminar on the occasion of Women's Equality Day on the topic 'Women in STEM' to acknowledge the great work women have been doing in the field of STEM.

Under Project Pahal, a session on Financial Literacy, "Vitt Vichaar" was organized for children to gain knowledge about banks and government policies. "Barkat" was another event organised in Sanjay Camp under Project Poshan, where we distributed more than 800 kg of ration to the underprivileged people of Sanjay Camp making it one of the most major distribution drives conducted by any NSS unit.

Project Astitva's session on menstrual hygiene called "Saksham Mahila, Saksham Samaj" along with a pad distribution drive broke the taboo of menstrual talk among the ladies and helped them gain important

knowledge about it. NSS-SVC also conducted a Cleanliness Drive called “Ek Tarik, Ek Ghanta” near Dhaula Kuan; Asha Mega Distribution drive for distribution of various items such as clothes, medicines, food.

Rang Badlaav Ke, is one of our four main events of the year where we choose an institution in need, this time a pre-primary School in Delhi Cantt., which needs renovation and along with our volunteers, we paint the walls of the school in colour of vibrance and beauty.

Library Development

Sri Venkateswara College Library has expanded its collection significantly, now boasting over 107910 books, subscribed 23 journals, 31 magazines, 14 newspapers and access to a vast digital repository.

In addition to its extensive collection, the library has prioritized technology integration. The ILM software to LIBSYS was upgraded in October 2023-24 with an amount of ₹ 2,12,400/-. The annual expenditure on purchase of books and subscription to journals/e-journals amounted to ₹ 17,79,449/- (₹ 15,29,449/- for Books and ₹ 2,50,000/- for Journals & Newspapers). Library has also Subscribed DELNET of ₹ 19,470/- and ₹ 5900/- for N-List in 2023-24.

Faculty Strength

Senior Professor/Professor/Director: 22

Associate Professor: 39

Assistant Professor: 142

Guest: 31

Financial Allocation and Utilization

Grant Allocated: ₹ 82.99 crores

Grant Utilized: ₹ 82.33 crores

ST. STEPHENS'S COLLEGE

Major Activities and Achievements

College continues to be the institution of choice for several foreign universities. Meetings and visits were held and College has had fruitful engagements with Universities from Japan, the United States of America and Korea among other countries.

College continues to be ranked among the top five Arts & Science colleges in India by independent ranking agencies.

The St. Stephen's Young Leaders, Neighbourhood-First Fellowship programme, supported by the Ministry of External Affairs, Government of India.

Several students of the College continue to win the top positions including AIR 1 and 3 at the UPSC 2023 examinations.

Honours/Distinctions

Students

The following students were awarded by the University for distinguished academic work.

Anmol Sharma from M A English won the Principal B B Gupta Memorial Medal.

Celin Sohet from B. A. English (Honours) won the Sir C P Ramaswamy Aiyer English Essay prize.

Dixit Goyal from B.Sc. Physical Sciences won the University medal for B Sc Physical Sciences (Honours).

Himani Wadhwa from M A English won the Dr N S Pradhan Memorial Medal.

In the sporting arena Payal Khatri from 3rd year English, an international-level shooter was a multiple medal winner including the prized World Cup and Championship Gold Medal. Sandeep Singh Rao from 3rd year B.A Programme won the bronze medal at the BRICS tennis games. Anurag Singh from 3rd year B.A. Programme participated in multiple international swimming events including the World University games and World Cup Championships.

Monika from M.A. Sanskrit won the Dr. C D Deshmukh Memorial Gold Medal, the Shri Ram Chandra Memorial Medal, the Shrimati Sivakamamma Radhakrishnan Medal, the Dr. S Radhakrishnan Medal and the Pandit Raghubar Dayal Memorial Medal.

Prachi Sharma B.Sc. (H) Chemistry won the M. Makhan Lal Gold Medal and the Rai Bahadur Brijmohanlal Saheb Memorial gold Medal.

Seminars Organized

Prof. Vimal Rarh; Dr. Ravikant Prasad; Ms. Tamanna Ruth Edwards; Dr. Pankaj Kumar Mishra, Dr. Vibha Sharma; Dr. Geetanjali Sethi; Dr. Ekta Kundra Arora; Dr. Sangeeta Sachdeva; Dr. Sanjay Kumar; Dr. Harish Kumar Yadav; Dr. Rakhi Thareja; Dr. Jyotirmoy Maity; Dr. Rekha; Dr. Shruti Thakur; Dr. Akshay Rana; Dr. Megha Munjal; Dr. Aditi Gupta; Dr. Garima Khanna; Dr. Sonam Nirwan; Dr. Kriti Kashyap; Dr. Kavya Bhakuni, National Workshop cum Training Program on Skill Development and Upgradation Workshop for Laboratory Personnel, August 8-10, 2023.

Dr. Chandrashekhar Vishwakarma, Assistant Professor from TERI School of Advanced Studies, Dr. Sandeep Thacker, Consultant for Climate Change and Human Health, UNICEF, India, Workshop on 'Environment, Our Concern', under the aegis of IQAC, February 21-22, 2024.

Dr. N. Kalaiselvi, the Director General CSIR, Council of Scientific and Industrial Research (CSIR) - St Stephen's College Students Connect Program 2024, March 24, 2024.

Dipankar Bhattacharya, Prakash Arumugasamy, Suprit Singh, Deepak Jain, Sanil Unnikrishnan, T. R. Seshadri, Geetanjali Sethi, Chetana Jain, Shruti Thakur, Akshay Rana, Main Pal, Dhruva J Saikia, Aru Beri, Darshan Kumar, Philip Cherian, Pedagogic workshop on Astronomy, Astrophysics and Cosmology, November 6-10, 2023.

Prof. Arunava Sen, ISI Delhi, Prof. C.S. Lalitha, University of Delhi, Dr. Jyotirmay Bhattacharya, Ambedkar University, Dr. Dipti Dubey, Shiv Nadar University, Dr. Vandana Khaitan Gupta, University of Delhi, Workshop on Optimization and Game Theory, Centre for Economic Research, April 10-12, 2023.

Meena Kandasamy, Anti- Caste Activist, Poet, Novelist, Translator, Shormishtha Panja, Department of English, University of Delhi, Smita Patil, School of Gender and Development Studies, IGNOU, Arjumand

Ara, Department of Urdu, University of Delhi, Wafa Hamid, Department of English, Lady Shri Ram College for Women, University of Delhi, Ashley Tellis, Translating Sexualities, Centre for Gender, Culture and Social Processes, April 5-6, 2023.

Conferences Organized

International Conference Advances in Pharmaceutical Sciences: Bridging Academia and Industry, under the aegis of IQAC on March 5-6, 2024.

Other Inter-Institutional Collaboration

College signed an MoU with the All-India Management Association, AIMA in the presence of the Hon'ble Minister of Higher Education Shri Dharmendra Prasad.

Number and percentage of students placed

Number of students placed: 55

Number of Companies visited for campus recruitment: 56

Faculty Strength

Total = 78

SWAMI SHRADDHANAND COLLEGE

Major Activities and Achievements

India's G20 Presidency : Envisioning Vishwa Guru Bharat, April 27, 2023

Publications

Scopus indexed Journals

Aderao, G. N., Jadhav, S. E., Pattanaik, A. K., Gupta, S. K., Ramakrishnan, S., Lokesh, E., ... & Singh, G. (2023). Dietary selenium levels modulates antioxidant, cytokine and immune response and selenoproteins mRNA expression in rats under heat stress condition. *Journal of Trace Elements in Medicine and Biology*, 75, 127105.

Arora, M., Gambhir, M., & Prasad, V. (2023). Anomalous Stark effect and optical properties of exciton in a quantum dot with linear potential under ionized donor hydrogenic impurity. *Current Applied Physics*, 48, 17-28.

Arora, M., Giri, R., Kumar, K., Yadav, C., Vidhani, B., Gambhir, M., & Prasad, V. (2023). Effect of electric and magnetic field on thermal property of two dimensional harmonic oscillator. *Results in Physics*, 45, 106225.

Arora, S., Singh, H. P., Sahota, L., Arora, M. K., Singh, S., Arya, R., & Prashar, A. (2024). Energy matrices, enviro-economic and characteristic equation-based performance analyses of photovoltaic thermal

compound parabolic concentrator (PVT-CPC) coupled solar still equipped with heat exchanger using SWCNTs and MWCNTs–water nanofluids. *International Journal of Ambient Energy*, 45(1), 2308039.

Badawi, N. M., Agrawal, N., Adil, S. F., Ramesh, S., Ramesh, K., & Bashir, S. (2023). A review of wearable supercapacitors fabricated from highly flexible conductive fiber materials. *New Carbon Materials*, 38(2), 211-225.

Badawi, N. M., Batoo, K. M., Hussain, S., Agrawal, N., Bhuyan, M., Bashir, S., ... & Kasi, R. (2023). Design and Characterization of Electroconductive Graphene-Coated Cotton Fabric for Wearable Electronics. *Coatings*, 13(9), 1601.

Badawi, N., Bhatia, M., Agrawal, N., Bashir, S., Ramesh, S., Ramesh, K., & Bhuyan, M. (2023). Highly conductive-sensitive, single-walled carbon nanotubes–poly (3, 4-ethylenedioxythiophene) polystyrene sulphonate-coated cotton thread for thermally stable fabric and wearable e-textiles. *Bulletin of Materials Science*, 46(4), 208.

Bala, K., Bala, K. (2024). Benefits of mushrooms for the environment and humans. *Journal of Critical Reviews*, 11(1), 1-7.

Bansal, S., Vachher, M., Arora, T., Kumar, B., & Burman, A. (2023). Visceral fat: A key mediator of NAFLD development and progression. *Human Nutrition & Metabolism*, 200210.

Colaco, V., Goswami, N., Goel, V. K., Srivastava, S. K., Lalrohlu, P., Senthil Kumar, N., ... & Varma, A. K. (2024). In silico and structure-based evaluation of deleterious mutations identified in human Chk1, Chk2, and Wee1 protein kinase. *Journal of Cellular Biochemistry*, 125(1), e30508.

Dabas, K. (2023). Impact Analysis of Population Growth and Urbanization on Water Crisis: A Case Study of Delhi. *Water and Energy International*, 66(9), 20-24.

Das, S., Agarwal, P., Sahota, L., Meena, Y. K., Singh, M., & Gill, B. S. (2024). Economic and Performance Analysis of Modified Solar Distillation System Coupling Different Integrations Using Carbon Quantum Dot Nanoparticles: Generalized Thermal Model. *Journal of Solar Energy Engineering*, 146(4).

Das, S., Agarwal, P., Sahota, L., Meena, Y. K., Singh, M., & Gill, B. S. (2024). Economic and Performance Analysis of Modified Solar Distillation System Coupling Different Integrations Using Carbon Quantum Dot Nanoparticles: Generalized Thermal Model. *Journal of Solar Energy Engineering*, 146(4).

Devi, S., & Prasad, V. (2023). Dynamics of coupled rotors in external fields. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 302, 122983.

Guleria, S., Jandaik, S., & Thakur, P. (2024). Taxonomic Identification and NutritionaProfiling of Wild Isolates of the Pink Oyster Mushroom *Pleurotus djamor* (Agaricomycetes) from Northwestern Himalayas (India). *International Journal of Medicinal Mushrooms*, 26.

Gupta, M., Aggarwal, P., & Gupta, R. (2023). Corporate Sustainability with Forensic Auditing: An Evidence from India. *International Journal of Experimental Research and Review*, 35, 128-137.

Gupta, S., & Goel, V. K. (2023). Electronic Spectroscopic Study of Stability of L-Ascorbic Acid (Vitamin C) in Aqueous Solutions of Salts (NaHCO₃, NaCl, and KCl).

Husain, S., Alam, M. N., Hisam, M. W., & Paliwal, L. R. (2023). Crowding-in or crowding-out? The linkage between private investment and public debt of India using symmetric and asymmetric cointegration methodology. *International Journal of Applied Economics, Finance and Accounting*, 16(2), 336-344.

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Jacob, J. J., Pragasam, A. K., Vasudevan, K., Velmurugan, A., Priya Teekaraman, M., Priya Thirumoorthy, T., ... & Mutreja, A. (2023). Genomic analysis unveils genome degradation events and gene flux in the emergence and persistence of *S. Paratyphi A* lineages. *PLoS Pathogens*, 19(4), e1010650.

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UGC Care-list indexed Journals

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Web of Science indexed Journals

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Vashistha, V. K., Bala, R., Mittal, A., Pullabhotla, R. V., Yadav, S., & Verma, N. (2024). Stereoselective analysis and enantioseparation of isoproterenol in spiked human plasma. *Chemical Papers*, 78(1), 613-622.

Vashistha, V. K., Kumar, T., Yadav, S., & Das, D. K. (2024). Enantioselective separation and determination of ibuprofen: Stereoselective pharmacokinetics, pharmacodynamics and analytical methods. *Chirality*, 36(2), e23647.

Vashistha, V. K., Sethi, S., Mittal, A., Das, D. K., Pullabhotla, R. V., Bala, R., & Yadav, S. (2024). Stereoselective analysis of chiral pesticides: a review. *Environmental Monitoring and Assessment*, 196(2), 153.

Research Projects

Parveen Garg: ICSSR Culture Impeccability of Tribals of Himachal Pradesh since Vedic period with reference to their Flora's, ₹ 6,00,000.

Seminars Organized

Ajay Kumar Bhaghi, Professor Dayal Singh College and Prof. Rama, Principal Hans Raj College, Commission for Scientific and Technical Technology, Ministry of education, GOI, Azadi ka Amrit Mahotsav- Rashtriya Ekta aur Akhil Bhartiya Shabdawali, August 8, 2023.

Vijay Pratap, Uttar Pradesh Sangthan Mantri ABVP , ICHR, 1857 ke Pratham Swatantrata Sangram ka Delhi Adhyaay, November 4, 2023.

Seminar/Conference Presentations

Bipin Kumar presented a paper titled 'Assemblages of Benthic Macroinvertebrates in the Headwater Tributaries of River Alakhnanda in Garhwal Region of Uttarakhand India' in the 8th International Conference of INSCR and 4th International Symposium on Ciliate Biology at Conference Centre, University of Delhi, Delhi on April 3-5, 2024.

Isha Gunwal presented a paper titled 'The International Year Of Millets' during the 2nd International Conference on Advance Interdisciplinary Research (ICAIR-2023), Jointly Organised by Digvijai Nath Post Graduate College, Gorakhpur, UP & Science Tech Institute, Lucknow, UP, India on April 7-9, 2023.

Laxman Ram Paliwal presented a paper on Technology 4.0 Reshaping Accounting: A Comprehensive Analysis for Professionals, Businessmen, and Students, at 45th All India Accounting Conference & International Seminar on Accounting Education and Research Organised by Department of Commerce, University of Kerala, Thiruvananthapuram & IAA Kerala Branch during December 9 & 10, 2023.

Pratibha Rana presented a paper titled Rashmi Rathi (Dinkar) ke tritya sarg ka Rangmanch ki Drishti se vishleshan, International Hindi Sammelan, Vigyan Bhawan, New Delhi, September 20-21, 2023.

Rachana Singh presented a paper titled 'The study of rural-urban poverty and inequality with special reference of Bihar' in a national conference organised by the Ministry of Social Justice and Empowerment at Ambedkar International Centre dated January 13, 2024

Saroj Bala presented a paper titled Cultural Identity, Community and Gender- A Study of Ratan Kumar Sambhariya's 'Bes' in 9th JGU International Literary Conference on 'The Gender Question: Diverse Terrains; Multiple Views' organised by O.P. Jindal Global University, Sonapat, Haryana held on December 5-6, 2023.

National/International MoUs/MoAs Signed

Atria Solar power (Solar Powerplant)

Saksham Inderprastha

Bhaanti Consultancies Pvt. Ltd

Proschool Skill Development

Breakthrough trust

Extension and Outreach Activities

Outreach and Awareness Activity "Understanding Immunology can improve Human Health" was carried out in a nearby government school in collaboration with the Indian Immunology Society to celebrate International Immunology Day-2023.

Swachh Bharat Abhiyan: Environment Promotional Activity Beyond the Campus and Cleanliness and Plantation Drive to Save Yamuna (Mission Accomplished: Swachh Bharat and Ecosystem Restoration) June 23, 2023

Plastic Eradication Campaign (Purpose/ Mission Accomplished: Awareness cum Cleanliness Drive (Celebrated Swachh Bharat Mission and World Rivers Day) September 29, 2023

Youth Empowerment & Entrepreneurship Development Committee/ Incubation Centre: Presentation of Start-up Ideas, October 10, 2023 and Project Finance Start-up Model, October 19, 2023

Social Media analysis and advertising, February 28, 2024

Electoral Literacy Club (ELC): Voter awareness program and talk on the topic " the Significance of Vote in Democracy", February 27, 2024.

Faculty Strength

Senior Professor/Professor/Director: 28

Associate Professor: 38

Assistant Professor: 102

Ad-hoc: 7

Guest: 59

Financial Allocation and Utilization

Grant Allocated: ₹ 85.13 crores

Grant Utilized: ₹ 83.96 crores

VIVEKANANDA COLLEGE

Major Activities and Achievements

The college conducted the process of Cycle II of NAAC accreditation. The NAAC Peer Team visited the college on January 21-22, 2024 and the college was accredited with 'A+' grade this time after getting 'A' grade in Cycle I.

The college completed the recruitment process across 13 departments after more than a decade. 75 faculty members have been appointed.

Honours/Distinctions

Faculty

Neeta Mathur was felicitated by Vaishali Kala Kendra, Noida with "Naad Pragalbha" Samman during "Guru Pranam Utsav" held on April 19-20, 2023 at India Habitat Centre. Prof. Neeta Mathur was also nominated as one of the jury members for the Audition board of All India Radio, New Delhi.

Rajni Jindal also received the Outstanding Librarian National Award 2023 from Kamarajar Institute of Education and Research Theni, Tamil Nadu, India.

Saroj Kumari was awarded Vishnu Prabhakar National Award 2024 by Gandhi Hindustani Sahitya Sabha and Vishnu Prabhakar Pratishthan for her contribution towards poetry on January 20, 2024.

Publications

Scopus indexed Journals

Bajaj, D., Bharti, U., Gupta, I., Gupta, P., & Yadav, A. (2024). GTMicro—microservice identification approach based on deep NLP transformer model for greenfield fdevelopments. *International Journal of Information Technology*, 1-11.

Bhanot, D., & Verma, S. K. (2024). Experiences of Caste Stigmatization: Health and Well-being. *Psychological Studies*, 1-14.

Gupta, I., Chatterjee, I., & Gupta, N. (2023). A two-staged NLP-based framework for assessing the sentiments on Indian supreme court judgments. *International Journal of Information Technology*, 15(4), 2273-2282.

Hameed, S. & Sondhi, V. (2023). Experiences and difficulties for primary caretakers of children with celiac disease Ñ A qualitative study. *Indian Journal of Gastroenterology*, 42 , 791-799.

Kapoor, B., & Sondhi, V. (2024). Exploring the Understanding of Globalization: A Qualitative Study of the Urban, Educated, Middle-Class, Young Indians. *Culture & Psychology*, 30(2), 367-386.

Kumar, A., Yadav, S., & Garg, T. (2024). Phase-Image-Encryption-Based Elliptic Curve and Double-Random-Phase Encoding. *Engineering Proceedings*, 59(1), 155.

Sharad, S. (2023). Racial, ethnic, and other inequalities in healthcare and in pain reporting and management. *Frontiers in Pain Research*, 4, 1275137.

Singh, S., Suri, S., & Singh, R. (2024). Determination of Viscosity of Browntop Millet Grain Paste and Whole Browntop Millet Flour Paste. *Current Nutrition & Food Science*, 20(9), 1138-1144.

Sorokowska, A., Kowal, M., Saluja, S., Aavik, T., Alm, C., Anjum, A., Asao, K., Batres, C., Bensafia, A., Bizumic, B. and Boussena, M., 2023. Love and affectionate touch toward romantic partners all over the world. *Scientific reports*, 13(1), p.5497.

Szkody, E., Spence, A., Özdoğru, A., Tushir, B., Chang, F., Akkaş, H., Sotomayor, I., Pavlova, I., Petrovic, I., Norvilitis, J. and Pena-Shaff, J., 2024. Social support and help-seeking worldwide. *Current Psychology*, pp.1-17.

UGC Care-list indexed Journals

Jain, V. Environment and Public Health Disaster from the lens of Sludge Management in India. *Disaster Development*, 97.

Verma, S. K., & Tripathi, S. R. (2023). Elderly perception of youth behaviour, subjective experiences, and intergenerational solidarity: A gender, ecology and class analysis. *Indian Journal of Gerontology*, 37(2), 256-276/

Web of Science indexed Journals

Gupta, I., Chatterjee, I., & Gupta, N. (2023). Enhanced Deep Learning-Based Model for Sentiment Analysis to Identify Sarcasm Appeared in the News. *Computing and Informatics*, 42(5), 1091-1113.

Jain, S., Singh, A. P., Madan, M., & Jain, P. (2024). Boundedness Of Dunkl-Hausdorff Operator For Radially Decreasing Functions And Monotone Weights On R_N . *Journal Of Mathematical Sciences*, 1-18

Singh, J. K., & Nagpal, R. (2024). A model of dark matter–dark energy interaction with some cosmic consequences. *Indian Journal of Physics*, 98(7), 2609-2622.

Research Projects

Shivantika Sharad: IACCP SPARK grants, , Broadening Horizons: A Certificate Course on Cross-Cultural Psychology, ₹ 83,611.35.

Patents Filed/Granted

Vishakha Jain: “System For Managing Storm Water” was granted on March 7, 2024 for her invention titled for a term of 20 years from January 5, 2022 in accordance with the provisions of the Patents Act, 1970.

Seminars Organized

Dr. K.P. Chinda, Founder Principal of Keshav Mahavidyalaya, University of Delhi, NIL, Panorama of Mathematics on November 29, 2023.

Ms. Shisba Chawla, Record Advocate in the Supreme Court of India, NIL, Cyber Law on January 30, 2024.

Ms. Aayushi Kalra, Assistant Professor of Business Analytics at Jaipuria Institute of Management, NIL, Decoding Business Analytics on October 10, 2023.

Dr. Ajay Kumar, Ramanujan College, University of Delhi, NIL, Awareness of our rights and responsibilities as citizens of India on November 7, 2023.

Mr. Aditya Shastri, Expert on Digital Marketing, NIL, Digital Marketing 101 on October 27, 2023.

Seminar/Conference Presentations

Sandhya Jain presented a poster entitled “Boundedness of Hausdorff and Dunkl Hausdorff” in the Indian Women and Mathematics (IWM) Annual National Conference held at IISER Bhopal during July 13-15, 2023.

National/International MoUs/MoAs Signed

An MoU with the University of Buraimi, Oman for academic partnership was renewed on October 30, 2023. It is valid for 5 years.

An MoU with the Institute of Industrial Development was signed on September 31, 2021 for a duration of two years as a step towards partial fulfilment of objectives of Vidya Vistar Scheme.

An MoU between University of Delhi, Government Model College, Deithor of the University of Dibrugarh, Dibrugarh, Assam and Vivekananda College was signed on October 22, 2021 under the Vidya Vistar Scheme and is valid for two years.

An MoU was signed with Bharat Soka Gakkai under SDG club on March 23, 2023 and is valid for one year.

An MoU was signed with Delhi Elites Football Academy on September 27, 2023 and is valid for two years.

Placement Details

Number of students placed: 27

Number of Companies visited for campus recruitment: 6

Extension and Outreach Activities

The Social Outreach and Community Development Committee (SOCDC) partnered with Slum Swaraj Foundation (SSF) on bringing awareness among the children by conducting regular educational camps for the slum children in Jhilmil Colony. It also partnered with Delhi Legal State Authority (DLSA) which focusses on creating legal, health and environmental awareness for families living in the slums of Jhilmil colony.

A Camp visit for resuming tutorial classes in physical mode was organized by SOCDC Student Volunteers on September 30, 2023.

A game stall in Diwali Delight was organized by SSF Volunteers on November 6, 2023 to create awareness of social work.

A Cloth Donation Drive was organized by SOCDC Student Volunteers from November 22, 2023 to December 2, 2023.

A Seminar was organized by SOCDC Student Volunteers in collaboration with DLSA (Delhi Legal Services Authority) on “Cyber Law” on January 30, 2024.

A Donation Drive of stationary items and eatables was organized by SOCDC student Volunteers on February 7, 2024.

Several projects are being run by our NSS volunteers:

Project Shakti: The project provides awareness about Menstruation and Menstrual Hygiene to Teenagers from 12 years to 15 years or those about to reach puberty in slum areas and schools like Indal Memorial Public School and Herald Public School.

Project Unnati: vVolunteers visit the slum or park near college campus on alternative days and teach the children and involve students in fun activities like dancing, sports, poetry and speech learning.

Project Sahyog: All the Donation Drives that enable us to help others such as Cloth donation Drives, Book Donation Drives, Stationary Donation Drives, and Hair Donations come under Project Sahyog. NSS volunteers have been conducting these drives near Jhilmil Slum Areas or Balaji Temple near college campus for the past 4 years.

Project Jeevan: Blood Donation Drives and Health Check Camps collaborating with many organizations such as Lion Blood Bank, Max Hospital, GTB Hospital, etc were conducted.

Activities and Collaborations include:

NSS collaborated with Apollo Hospital on March 21, 2024 for a health check-up camp. There were several free health services offered by them like BP, Blood Sugar, HB, ECG, BMD, Dietician etc.

NSS conducted “Slam Poetry Competition” in collaboration with NSS IITD on March 7, 2024.

NSS conducted a cleanliness drive at Lodhi Garden in collaboration with NSS Maitreyi, NSS Acharya Narendra Dev College and NSS Ramanujan College on March 1, 2024.

NSS collaborated with Ramindra Foundation for the distribution of sanitary napkins in Herald Public School on February 28, 2024.

NSS conducted an event “Divya Utsav” on December 4-5, 2023 in collaboration with NSS Maitreyi College.

NSS collaborated with Shining Birds Foundation for the upliftment of slum children on November 24, 2023.

ENACTUS: On November 4, 2023, under the Project Kiran, a collaborative effort featured Saday Sadev, a prominent PAN-India-based non-governmental organization (NGO) with a mission to destigmatize health-related issues. Our partnership with Saday Sadev yielded a kit brimming with four eco-conscious cloth sanitary napkins and an enlightening menstrupedia comic. These vital provisions were generously bestowed upon young girls aged 10-14 in Chhalera Village, facilitated by The Voice of the Slum. 200+ sustainable cloth pads were distributed.

Library Development

A three-day book exhibition on the occasion of Hindi Diwas was held to celebrate the richness of the Hindi language and promote Hindi.

Library Collection: Our college library is fully computerized (Through LSease ILMS) and RFID enabled. The library has a collection of approximately 67482 printed books including 76 Braille books along with ten (10) print journals, 14 newspapers, 23 general magazines and audio-visual material. 755 books were added during this financial year. Membership of NList and DELNET has been renewed. Library has budget of approximately ₹ 7,00,000.

It also initiated the internship programme to SOL (DU) students as it is mandatory for students of B.Lib.Sc. as part of their curriculum. Eight students have done internship. Honorary Internship is also given to library Science undergraduates.

Faculty Strength

Senior Professor/Professor/Director: 7

Associate Professor: 23

Assistant Professor: 79

Guest: 11

Financial Allocation and Utilization

Grant Allocated = ₹ 32,68 crores

Grant Utilized = ₹ 42,13 crores (*balance spent from Student Fee)

ZAKIR HUSAIN DELHI COLLEGE

Major Activities and Achievements

ZHDC participated in the 66th Annual Flower Show organized by the University of Delhi on March 1, 2024 and secured three rolling trophies/cups. A significant highlight is the college's first flower show, "Pushp Madhurya," held on March 5- 6, 2024.

Honours/Distinctions

Zakir Husain Delhi College has organised Indo-Canadian Utsav on account of G-20 held on 30th Nov 2023. Prof. Narendra Singh, Principal, Zakir Husain Delhi College, received an honour from the Culture Council, University of Delhi as a token of appreciation.

Hriday Bhanu Pratap received Munshi Premchand World Urdu Day Award 2023 for promotion of Urdu literature.

Prof. Sanjeev Kumar, Department of Political Science, nominated as Member, Advisory Committee and Research Committee of the Centre for Global Studies, University of Delhi for a period of three years, 2023-2026. Also, he is nominated as a Member, Departmental Research Council, (DRC) Department of Political Science, University of Delhi for two years w.e.f. October 10, 2022.

Ritu Mathur, Department of Chemistry, received a certificate of appreciation from the Vice Chancellor, University of Delhi for holding G20 Indo- Canadian activities at Zakir Husain Delhi College as Faculty Nominee.

Publications

Scopus indexed Journals

Chand, M., Rawat, A. S., Khanuja, M., & Rawat, S. (2022). Hydrogen production activity of MoS₂-ZnIn₂S₄ nanocomposite under visible light irradiation. *Materials Today: Proceedings*, 66, 1951-1954.

Yadav, F., Goyal, A., Singh, N., & Mohan, M. (2024). Photoionization of ground and excited states of Cr VIII with Rydberg series analysis of resonances involved. *Indian Journal of Physics*, 98(5), 1573-1582.

UGC Care-list indexed Journals

Singh, S. A. (2024). Anthropocene Fiction as a Pedagogical Tool: The Speculative Utopias of Margaret Atwood. *Fortell*, 48, 109-117.

Singh, S. A. (2024). She is Her Own Species. *Indian Literature*, 68(1 (339), 195-198.

Web of Science indexed Journals

Chand, M., Barthwal, S., Rawat, A. S., Khanuja, M., & Rawat, S. (2023). A comparative photocatalytic degradation study of cationic and anionic dyes using ZnIn₂S₄ photocatalyst. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 14(1), 015014.

Chand, M., Barthwal, S., Rawat, A. S., Khanuja, M., & Rawat, S. (2023). Enhancing photocatalytic efficiency of spent tea leaf powder on ZnIn₂S₄ incorporation: role of surface charge on dye degradation. *ACS omega*, 8(20), 17880-17890.

Deen, S. Y., Sharma, A. V., Singh, P., Ganta, S., Ragesh, P. R., Sharma, S., ... & Mullick, S. (2023). Influence of age, diurnal cycle, and plant and non-plant surfaces on oviposition by *Spodoptera litura* (Fabricius)(Lepidoptera: Noctuidae). *International Journal of Tropical Insect Science*, 43(5), 1553-1561.

Goswami, M. P., & Kumar, R. (2022). Riemann–Liouville fractional operators of bicomplex order and its properties. *Mathematical Methods in the Applied Sciences*, 45(10), 5699-5720.

Goswami, V., Deepika, S., Chandra, R., Babu, C. R., & Kothamasi, D. (2023). Arbuscular mycorrhizas accelerate the degradation of colour containing organic pollutants present in distillery spent wash leachates. *Journal of Hazardous Materials*, 452, 131291.

Goswami, V., Deepika, S., Diwakar, S., & Kothamasi, D. (2023). Arbuscular mycorrhizas amplify the risk of heavy metal transfer to human food chain from fly ash ameliorated agricultural soils. *Environmental Pollution*, 329, 121733.

Kothamasi, D., Vermeylen, S., & Deepika, S. (2023). Are ecological processes that select beneficial traits in agricultural microbes nature's intellectual property rights?. *nature biotechnology*, 41(10), 1381-1384.

Kumar, R., Singh, N., & Goyal, A. (2024). Electron impact single ionization cross-section and Maxwellian rate-coefficients of L-shell of tungsten ions W⁶⁴⁺-W⁷¹⁺. *Radiation Physics and Chemistry*, 220, 111672

Masroor, M. D., Sengar, M., Masroor, Z., Pal, S., Kumar, R., Bala, K., ... & Patel, K. S. (2023). Assessing road-kill mortality in the highway passing through urban, agricultural, forest and river landscapes in Bihar. *Journal of Experimental Zoology India*, 26(2).

Masroor, Z., Masroor, M. D., Bala, K., Pal, S., Kumar, R., Patel, K. S., & Sengar, M. (2023). Unusual infestation of litchi fruits by land snail, *Rhachis bengalensis* (Lamarck, 1822) in Muzaffarpur (Bihar). *Journal of Experimental Zoology India*, 26(2).

Rawat, S., & Rawat, A. S. (2022). Quaternion supersymmetric quantum mechanics and SWKB approximation. *The European Physical Journal Plus*, 137(6), 660.

Yadav, F., Goyal, A., & Singh, N. (2023). Analysis of line intensity ratio for optical transitions of 3d6 levels and plasma screening effect on atomic structure of Fe III ion. *Radiation Physics and Chemistry*, 206, 110795.

Research Projects

Anubha Das: Govt. of India, Min. of Science, Department of Science and Technology, National Council for Science & Technology Communication (Division) , NOUR 1 Science Media Research and Outreach, Youth Science Media Challenge , ₹ 37.64066 lakhs.

Manjeet Singh Barwa: Indian Knowledge Systems Division, Bhartiya Rasayan shastra wa rasayan ka itihās, ₹ 3.75 lakhs.

Namrata Chaturvedi: ICSSR, Women Sants of North India: Recovering an Indigenous Literary and Feminine Spiritual Tradition, ₹ 7.5 lakhs.

Narendra Singh: International Atomic Energy Agency (IAEA), Atomic Structure Calculations and Study of Atomic Processes with Application in Fusion Plasma-Wall Interactions in Fusion Devices, ₹ 12 lakhs.

Ravi Kant: DRDO, Fabrication and Evaluation of polymer Composites for microwave Absorption (2-18 GHz), ₹ 47.59 lakhs.

Seminars Organized

Dr. Pooja Sharma, Distinguished Gandhian Economist, Gandhi Study Circle, ZHDC, Sustainability, and the Environment on January 30, 2024.

Mr. Arshdeep, Enterprise Head at Digiaccel Learning, Career and Placement Cell, ZHDC, Understanding Start-up Business Model on February 7, 2024.

Mr. Pullock Bhattacharji, AVP, BSE Institute, BSE Institute and Viksit Bharat @2047, ZHDC, Investment Opportunities Available in Stock Market on February 19, 2024.

Prof. Panchalam Soundarajan, Bhartiya Bhasha Samiti; Prof Om Nath Bimali, University of Delhi and Prof. R. N. Patel, University of Delhi, Bhartiya Bhasha Samiti and Viksit Bharat @2047, ZHDC, Jagatguru Shri Shankaracharya Vyakhyanamala, March 22, 2024.

Prof. Thomas Weber, Eminent Gandhian Scholar & Senior Fellow at La Trobe University, Melbourne, Gandhi Study Circle, ZHDC, Gandhi's Legacy: Words and Marketing Brands on October 22, 2023.

Conferences Organized

National Conference on "Exploring the Gandhian approach of Conflict resolution: Relevance for India and the World in the 21st Century on March 20, 2024, Gandhi Study Circle, ZHDC.

Seminar/Conference Presentations

Abhinav Singh was invited for talk on the topic of "Men's Mental Health" by Rotaract Club Of Genesis Midwest sponsored by Rotary Club of Delhi Midwest Rotary International District 3011 on March 9, 2024.

Gayatri Shishodia presented paper titled “Size-dependence of ZrO₂ nanoparticles synthesized by sol-gel method on pH and annealing temperature” at 28th International Conference on Nuclear Tracks and Radiation Measurements, Gurugram University, November 6-10, 2023.

Neelam Pahwa presented paper titled “Structural, Optical and Surface Studies of Cadmium Telluride thin films of Nanometer thickness range, at 28th International Conference on Nuclear Tracks and Radiation Measurements, Gurugram University on November 6-10, 2023.

Sakshi Wason delivered a talk on Detective Fiction titled - "Looking to Detect" - in Department of English, Aryabhata College on February 20, 2024.

Sakshi Wason presented a paper (online) titled "O.V. Vijayan's Silent Cartoons" in the National Seminar on "Time and Text: Indian History and Literature in Dialogue" organised by Department of English, Farooq College, Kozhikode on February 20, 2024.

Sakshi Wason presented a paper (online) titled "Re-visiting 1984 through the Mythical and the Fabular" in the 3 days' Singularities International Conference on Fantasy 2024, jointly organised by Singularities: A Peer-Reviewed International Transdisciplinary Biannual Research Journal and the Department of English, University of Calicut, Kerala from January 9-11, 2024.

Sanjeev Kumar delivered an Invited Lecture on “What Swaraj meant for Mahatma Gandhi” in the National Seminar on 'Gandhi's Swaraj: Then and Now’ organized by PGDAV College, University of Delhi on October 5, 2023.

Sanjeev Kumar was an Invited Lecture on “Gandhi and the philosophy of Gita in the Two-Day Social Science Colloquium, ‘Philosophy of Gita: Lessons for the Youth" under the Azadi Ka Amrit Mahotsav (AKAM) program organized by the Centre for Global Studies, University of Delhi in association with the Ministry of Culture, Government of India, August 13-14, 2023.

Sanjeev Kumar was invited as a Resource Person, delivered a Lecture on “Human Rights in India” at a Capacity Building Programme for KRPs in Single Major Subject Pattern in Political Science” organized by UGC-MMTTC, Jawaharlal Nehru University in collaboration with Commissionerate of Collegiate Education (CCE) Govt. of Andhra Pradesh, February 17, 2024.

Sanjeev Kumar was invited as a Resource Person, delivered a Lecture on “Sri Aurobindo's Philosophy of Bhagavat Gita and its Contemporary Relevance’ at the one- day Faculty Workshop on ‘Culture and Communication’ organised by the Department of English, Sri Guru Nanak Dev Khalsa College, University of Delhi, October 20, 2023

National/International MoUs/MoAs Signed

Agreement is executed between Zakir Husain Delhi College and Internshala (Scholiverse Educare Private Limited) in 2023 to facilitate the internship and training programs to the students.

MOU is entered into between Busan University of Foreign Studies, Republic of Korea, and Zakir Husain Delhi College, University of Delhi to facilitate collaboration for their common goals and to enhance educational and cultural ties as on August 24, 2023.

Placement Details

Number of students placed: 250

Number of Companies visited for campus recruitment: 84

Extension and Outreach Activities

The Aranya society organized a Nature Walk to Sanjay Van, the sprawling forest area near Vasant Kunj, on December 20, 2023. This activity allowed the participants to learn about the rich fauna and flora of the 443 acres of the park.

The Aranya Society under the aegis of IQAC and VIKSIT BHARAT, participated in a plantation drive organized by Saksham Bhoomi Foundation and Neem Team on the March 3, 2024 at Welcome Jheel. The Aranya Society further scheduled a visit to Sultanpur National Park, Gurugram, on February 24, 2024. The students learned how the wetlands especially the Ramsar site, contribute to the biodiversity.

The members of the “Aranya” were a part of the 7th edition of Ganga Utsav organized by the National Mission for Clean Ganga in Ambedkar International Centre on November 4, 2023.

The Nature and Environmental Society “Aranya” has conducted various activities to spread awareness about the importance of conserving the environment for future generations. The society in collaboration with Golden Hive Foundation, organized a Honeybee Workshop in Sunder Nursery on November 2, 2023. This workshop is intended to create awareness of the ecosystem services provided by the honeybees.

Under Viksit Bharat @2047, the college has participated at Naari Shakti Conclave by University of Delhi on March 8, 2024.

Library Development

The College Library has successfully been functioning in fully automated mode since the academic year 2017-2018 using Web Centric LSEase (college edition of LibSys 10 ILMS) software with the facility of Circulation at three points while three computer systems have been dedicated for the purpose of Online Public Access Catalogue (WebOPAC).

Subscription of four magazines in Braille format for the Visually Impaired and Print Disabled students of the College; Making the Library friendly and accessible to the Physically Handicapped users by way of providing them the facility of wheel-chair and priority in provision of various services to them.

Celebration of National Librarian’s Day: National Librarian’s Day was celebrated in the College Library this year also on August 12, 2023. An Online National Level Library and Information Science Quiz on the occasion of National Librarians’ Day 2023 in collaboration with Library Committee and IQAC of the college.

Organized a Book Exhibition on भारतीय स्वतंत्रता आंदोलन (1857-1947) from August 12-22, 2023 in collaboration with Library Committee and IQAC of the college. Books related to India’s Freedom Struggle had been put on display during the ten days’ long exhibition.

Faculty Strength

Senior Professor/Professor/Director : 26

Associate Professor: 60

Assistant Professor: 121

Ad-hoc: 11

Guest: 7

Financial Allocation and Utilization

Grant Allocated = ₹ 85.89 crores

Grant Utilized = ₹ 85.89 crores

ZAKIR HUSAIN POST GRADUATE EVENING COLLEGE

Major Activities and Achievements

The IIQA application for the NAAC Accreditation has been successfully accepted and the College is in the process of uploading the SSR for Ist cycle NAAC Accreditation.

Soni Mishra as NSS Volunteer was selected for the Republic Day Parade, 2024.

Arpit Kumar holds All India Rank 01 in Air Rifle Shooting Junior category, 2024.

Publications

Scopus indexed Journals

Maurya, S.K. (2023). A Tool For Political Mobilisation. *Economic and Political Weekly*, 58(51).

Journals published by the College

Shama-e-Hayat (2024)

Seminars Organized

Albeena Shakil, Professor of English, O.P. Jindal Global University, New National Allegories 21st Century India in the Indian English Novel on March 13, 2024.

Conferences Organized

India-South Africa @G20: Convergences and Concerns on September 14, 2023.

Seminar/Conference Presentations

Dr. Arvind Kumar Mishra presented a paper entitled, Sustainable Development Goals from the Perspective of India's Rural Local Self-Government: An Assessment organised by the Department of Public Administration, Mizoram University, Aizawl March 23-24, 2023.

Prof. Rajanikant Verma presented a paper entitled, Carbon Emission for Climate Change Mitigations: A Bibliometric Analysis of Selected Countries During 1991-2019" Area: Operations and IT Zakir Husain Delhi College (Evening), University of Delhi in association with GLBIMR, PGDM Institute, Greater Noida Theme: Management Education 5.0 on September 8-9, 2023.

Vikas Jain presented a paper entitled, "Translating Diaspora: Understanding Linguistic Transactions between Kalikatha: via Bypass in Hindi and English" at the National Seminar "Translating India: Bridging Cultures and Languages", organised by English Literary Association, Rajdhani College, University of Delhi, on March 16, 2024.

Meenakshi Sharma presented a paper entitled, 'Power/Vulnerability Nexus in the Supercrisis Narratives of Marvel Cinematic Universe' at the National Conference organised by the Department of English, Zakir Husain Delhi College (Evening), University of Delhi, on March 20, 2023.

National/International MoU/MoAs Signed

G.L. Bajaj Institute of Management and Research, PGDM Institute, Greater Noida and Zakir Husain Delhi College (Evening) on January 21, 2024.

Library Development

Number of text Books added in Text Book Section during 2023-2024 : 130

General/Other Books added in General Section during 2023-2024 : 649

Purchased four advanced level computers for processing of Library work and one thermal printer for printing of Spine labels & Bar Code in the Library.

Faculty Strength

Senior Professor/Professor/Director: 18

Associate Professor: 25

Assistant Professor: 56

Financial Allocation and Utilization

Grant Allocated: ₹ 36.99 crores

Grant Utilized: ₹ 31.58 crores

GENERAL FACILITIES

ALUMNI AFFAIRS

Major Activities and Achievements

A Centenary Alumni Meet held in April, 2023 saw active participation by many distinguished alumni from various professions . Hon'ble Cabinet Minister Shri Hardeep S Puri, an eminent alumnus graced the event as the Chief Guest.

A Cricket Match between the Vice Chancellor Team and Alumni Team was held in May, 2023. The Alumni XI boasted renowned Indian cricketers, including Amit Bhandari, Himanshu Rana, Ankush Bains, Chetan Sharma, Siddharath Sahib Singh, and Joginder Singh

The number of alumni registered on the Samarth Portal are 163082.

The Delhi University Alumni Association (DUAA) is a statutory University body and its members are actively engaged in University governance both through statutory bodies such as the University Court, Executive Council, Academic Council, Finance Committee and other bodies. Several serve on governing bodies of various University affiliated/constituent colleges.

Alumni Contribution: ₹ 26,51,000/-

Honours/Distinctions

Pravasi Bhartiya Samman (2023) conferred by Hon'ble President

Prof C. Jagdish (President, Australian Academy of Sciences)

Dr. Archana Sharma (Senior Scientist at CERN Laboratory, Geneva Both alumni of Dept. of Physics and Astrophysics

Arjuna Award (2023)

Ms. Nasreen Shaikh (Alumnus of Daulat Ram College)

Facilities

The office provides regular and timely assistance to alumni for degrees, degree verification, transcripts, medium of instruction certification, migration/provisional certificates . The office provides counselling-guidance services for alumni. etc. are provided by Mail.

Other Significant Information

A Centenary Alumni Meet held in Vice-Regal Lodge in April, 2023 saw very active participation by many distinguished alumni from various professions who added prestige and nostalgia to the event. Hon'ble Minister of Housing & Urban Development and Petroleum and Natural Gas, Shri Hardeep S Puri, an eminent alumnus and a valued ambassador of the university graced the event as the Chief Guest. The alumni reflected their time in their venerable Alma Mater, shared their thoughts on the future growth and several made a noble gesture of pledging support to the university. The event was followed by a gala dinner in the grand lawns of the Vice-Regal Lodge.

A Cricket Match between the Vice Chancellor Team and Alumni Team was held in May, 2023. The match featured a riveting contest between the Vice Chancellor's XI and the Alumni XI. The Alumni XI boasted renowned Indian cricketers, including Amit Bhandari, Himanshu Rana, Ankush Bains, Chetan Sharma, Siddharath Sahib Singh, and Joginder Singh, adding an extra level of excitement to the event. The match was held under the floodlights in the evening, further adding to the allure and creating a vibrant atmosphere.

The university also held a Retired Teachers Meet in June 2023 as a mark of gratitude for their service to the university.

An online membership registration was initiated to facilitate and enhance the membership of DU Alumni Association (DUAA) through the Samarth Portal. Fresh membership and renewal of DUAA were carried out within the norms. The number of alumni registered on the Samarth Portal are 163082.

The Delhi University Alumni Association (DUAA) is a statutory University body and its members are actively engaged in University governance both through statutory bodies such as the University Court, Executive Council, Academic Council, Finance Committee and other bodies. Several serve on governing bodies of various University affiliated/constituent colleges. DUAA Representatives to the DU Court for a 5year term 2018 – 2023 are Mr. Hari Shankar Gupta, Professor Virendra Kumar Agrawal, Professor Jai Prakash Sharma, Mr. Aman Kumar, Professor J. L. Gupta, Mr. Rajesh B. Mangla FCA, Adv. Nathu Ram Sharma, Dr Sanjeev Kumar Singhal, Dr. L. S. Chaudhary and Mr. Swarn Swarup Dubey. With the objective of mobilizing donations, funds and contributions from well-wishers, alumni, philanthropists and industries for the developments of students, faculties and institution, University of Delhi has constituted a 7 member Delhi University Endowment Fund Board (DUEF) with the following composition:

1. Prof. Yogesh Singh, Hon'ble Vice Chancellor (Chairman)
2. Prof. Balram Pani, Dean of Colleges
3. Prof. Shri Prakash Singh, Director South Campus
4. Dr. Vikas Gupta, Registrar
5. Finance Officer
6. Sr. Professor Shyama Rath, Dept. of Physics & Astrophysics (Dean, Alumni Affairs)
7. Prof. Anil Kumar, Dept. of Commerce.

The Alumni Office also partnered in the establishment of a Section 8 Company "University Development Foundation" It was launched in the Centenary Alumni Meet and has since been active in mobilizing funds to create an Endowment Fund for the university's progression.

Efforts and plans are ongoing for further strengthening the Alumni engagement.

CULTURE COUNCIL

Major Activities and Achievements

The Culture Council organized a Magic Show as part of the Centenary Celebrations.

G20 Cultural cum Academic Activities were conducted across 15 colleges and 3 departments.

In a National Level Online Quiz, 'Digital Payment Awareness,' Kartavya Gupta won the 1st prize.

Our students showcased cultural dance performances during the International Conference of the Department of Commerce on December 13, 2023.

Additionally, they performed dances during the 162 Jayanti of Swami Vivekanand at Vigyan Bhawan on January 12, 2024.

Ms. Shreeya Bansal, our Inter-College debate winner, secured the 1st prize in the Kamalnayan Bajaj Memorial National Elocution Competition on January 22 - 23, 2024.

Our students also participated and won 6 prizes at the 37 Inter Univ. North-West Zone Youth Festival, 'Rang-Tarang-24' held at MDU, Rohtak from February 9 -13, 2024 and 3 prizes at 'Hunar' held at PAU, LUH from 28 March - 1 April, 2024

Facilities

To organise various Inter-College Competitions in different categories (Music, Dance, Literary, Theatre and Fine arts etc.) according to guidelines laid down by Association of Indian Universities (AIU).

To organise Motivational Lectures at various colleges and Departments through Learning From Ant.

To participate in Programs/Competitions to be organised by AIU viz Inter-University Youth Festivals, National Inter-University Youth Festivals or any other event organized by AIU or equivalent.

To organise Workshops/Seminars in different categories like Folk instruments, Folk Dances and fine arts categories as mentioned in the AIU (Clay modelling, Cartooning, Rangoli, Mehndi, Photography, Painting, etc.).

To organise Ghazal Evening/ Musical Evening/ Mushaira and Play.

To organize cultural exchange programs with G20 or neighbouring countries. & ECA Admissions The Office of Culture Council play a pivotal role as the Nodal Office for all Undergraduate (UG) Admissions under the Extra-Curricular Activities (ECA) Category. In the academic year 2023-2024, the university organized a centralized ECA admission process, focusing solely on trials and the evaluation of ECA certificates. The Culture Council office played a pivotal role in handling the logistics, coordination, and communication with applicants, ensuring that the process ran smoothly. The ECA admission process encompassed all fourteen categories of Extra-Curricular Activities, allowing a wide array of interests to be represented. Students who possessed exceptional skills in fields such as music, dance, theatre, fine arts, creative writing, debate, digital media, yoga, divinity and more were given an opportunity to pursue their passions and talents further.

Other Significant Information

Culture Council, University of Delhi participated in the 37th Inter-University North West Zone Youth Festival 2024 under the aegis of Association of Indian Universities (AIU). The youth festival was hosted by Maharshi Dayanand University (Rohtak).

We participated in 17 categories of the festival and won prizes under 6 categories.

1st position was won by Rochelle John in category of Western Vocal Solo.

2nd position was won by Zargham Akram Khan in the Classical Instrumental Solo (Percussion) category.

3rd position was won in the Western Instrumental Solo category by Jaiditya Jha.

3rd position was also won by Aditya R in the Classical Dance category.

4th position was won by Khushboo Kumari Singh in the Rangoli category.

5th position was won by Pushpam Kumar in the category of On-the-Spot Painting.

Culture Council, University of Delhi Shines at the 37th AIU National Inter-University Youth Festival 'Hunar' 2024. Culture Council is thrilled to announce its exceptional performance at the 37th AIU National Inter-University Youth Festival 'Hunar' 2024, held from March 28 to April 1, 2024 at Punjab Agriculture University, Ludhiana, Punjab. With spirited participation across multiple categories, our university showcased its immense talent and dedication, securing remarkable positions in three out of the four categories it competed in.

In an impressive display of skill and artistry, the Culture Council emerged triumphant as follows:

1st Position in Classical Instrumental Solo (Percussion) Category: Our talented artist mesmerized the audience and judges alike with a captivating performance, earning the prestigious 1st position in this esteemed category.

1st Position in Classical Dance (Solo) Category: Demonstrating grace, precision, and cultural richness, our solo dancer captivated hearts and clinched the coveted 1st position, showcasing the rich heritage of Indian classical dance forms.

2nd Position in Western Vocal Solo Category: With soulful melodies and captivating vocals, our talented vocalist secured the 2nd position, enchanting the audience and earning accolades for their remarkable performance.

These outstanding achievements underscore the Culture Council, University of Delhi's commitment to fostering artistic talent, nurturing creativity, and promoting cultural diversity among its students. The success attained at the 37th AIU National Inter-University Youth Festival 'Hunar' 2024 is a testament to the dedication, hard work, and passion exhibited by our students, faculty, and staff.

DELHI UNIVERSITY COMPUTER CENTRE

Major Activities and Achievements

During the last one year (2023-24), DUCC continued to strengthen ICT Infrastructure and Services for offices, faculties, departments and colleges of the entire University for the benefit of all the stakeholders.

DUCC Digital Initiatives

Cyber Security Initiatives: Various Training Programs on Cyber Security were conducted such as Faculty Development Program on Cyber Security, High Performance Computing, AI/ML and GenAI, Digital India Awareness Workshop including Cyber Security, Faculty Development Program on Cyber Security.

Information / Alerts are being put on DUCC website regularly for wider circulation Cyber Dost Twitter Handle is put up on DUCC website for regular updates for everyone Posts from Cyber Dost twitter handle are retweeted on DUCC Twitter handle. Mass emails are sent to HoDs, College Principals, Faculty members on Security alerts and updates.

There is a section on Cyber Security on DU website with guidelines for Users. IT Policies are put up DU website for information and compliance to all stakeholders.

The DU website has obtained a Security Certificate from STQC based on the OWASP Top 10, 2017 criteria. Network Security Audit for DU Network has been completed.

MyDU Account: DUCC integrated the email services with G Suite. As a result, the user experience with regard to the availability of services and space requirements has increased manifold. All the stakeholders have access to all the services like Classroom, Google Meet, Drive, Sheets etc.; which enable them to be part of the Online Teaching Learning process. Bandwidth of 10 Gbps at both the Campuses. The bandwidth utilization at both North & South Campus and associated colleges was utilized to its full capacity. The National Knowledge Network (NKN) continued to provide 10 Gbps bandwidth. The University continues to be among the highest utilizers of NKN resources across the country. Campus wide Wi-Fi at both North and South Campuses with AAA Authentication. Campus wide Wi-Fi is running across both North and South Campus. The service is available to faculty, students and staff of the University. At present all the faculty, staff and students who want to avail the Wi-Fi facility have been provided campus wide Wi-Fi access with individual login and password. The Wi-Fi setup has been built to have Authentication, authorization, and accounting (AAA) at individual internet user level. More than 6000 users already availed the Campus Wi-Fi facility and the count is increasing day by day.

Network monitoring: In order to proactively monitor the Wi-Fi network, the monitoring software (Zabbix) is put in place which can help in proactive troubleshooting and help in maintaining maximum uptime for network, servers and applications.

College Network: The bandwidth of 100 Mbps continued for all the off campus colleges. In view of the requirement to maintain the maximum uptime of internet services, DUCC has taken strong steps to ensure that the college VPN connectivity should be in ring architecture. In case of disruption of VPN connectivity from one side the network remains available from the other side of the ring.

DU Cloud Infrastructure: DUCC offers comprehensive cloud Infrastructure services to support various IT requirements across the University of Delhi. From website hosting for departments, colleges, centres, and hostels to facilitating cloud-based IT services for research projects, conferences, and faculty web pages, DUCC ensures reliable and secure hosting solutions tailored to the diverse needs of the university community. With DUCC's cloud hosting services, the University of Delhi benefits from scalable infrastructure, efficient management, and enhanced accessibility, empowering stakeholders to leverage technology effectively for their academic and administrative endeavours.

The following Services have been available on Cloud during the period April 1, 2023 to March 31, 2024:

DU Exam Results Server which publishes all DU Results and also being used for entry of Examination Forms and other examination related services - durslt.du.ac.in **Student Life Cycle of Examination Branch** - slc.du.ac.in is catering to all students of University of Delhi.

DU Library OPAC Server - Online Public Access Catalogue (OPAC) allows to search for a item (book, conference proceeding, report or patent) in DU Library holdings - dulsopac.du.ac.in

Online Braille Library - bl.du.ac.in - materials in accessible format for the print disabled uses huge storage

DU Official Website - www.du.ac.in is hosted on Cloud which receives huge number of hits every day.

Heavy websites such as Centenary website, Glimpses etc. which hosts all the photographs / videos of various events. There are approx. 150 websites of various Department, Hostels, Research Projects hosted through Cloud Services, which receive huge hits and also takes up huge storage. There are many other

Online Portals like online Fees collection, transcript, migration certificate, Annual Report etc. hosted on Cloud. All DU Admissions related Portals are hosted on Cloud such as UG, PG and PhD, FSR Admissions, FMS Admissions etc. College Principal and Assistant Professor recruitment portals are on Cloud. Various Online Forms for immediate requirements are created using Form Services and are also hosted on Cloud.

Web-hosting: University of Delhi has indigenous bilingual website with a robust design to facilitate all stakeholders with not only the easy access to information, but also the utilization of that information for optimum output. The University website is an authentic source of information for all users. It is accessible through following links:

www.du.ac.in

www.uod.ac.in

दिल्लीविश्वविद्यालय.विद्या.भारत

दिवि.विद्या.भारत

डीयू.विद्या.भारत

Facilities

DUCC plays a pivotal role in facilitating seamless web hosting services for various entities within the academic landscape. Catering to the diverse needs of University Departments, Centres, Colleges, and Hostels, DUCC ensures a reliable and efficient platform for hosting websites and online resources.

During the period, DUCC has been hosting approximately 150 websites including websites of Departments, Colleges, Centres, Hostels and other Sub-domains of Research Centres / Projects / Conferences etc.

By harnessing advanced technological infrastructure, DUCC not only provides a robust hosting environment but also offers tailored solutions to meet the specific requirements of each academic unit. This centralized approach enhances the overall accessibility and performance of web-based content, fostering a collaborative and interconnected digital ecosystem within the university.

With DUCC at the forefront, the academic community can leverage cutting-edge web hosting services to support their endeavours in research, education, and administrative functions.

Digitalization of DU through Samarth e-Gov: Samarth is an Open Source, Open Standard enabled Robust, Secure, Scalable and Evolutionary Process Automation Engine for Universities and Higher Education Institutions by MoE. It has 9 core modules with 40+ sub modules to automate University processes.

Samarth has helped the University to migrate to a system which is secure, reliable and scalable. The University has implemented Samarth e-Gov platform. Samarth eGov has provided seamless integration of diverse processes to provide effective access to information to all the stakeholders of the University.

DU Samarth Modules implemented in University of Delhi:

Academics and Student Lifecycle – Programme and Courses, Admissions, Evaluation & Grading, Research, Student Feedback, Training and Placement, Alumni Portal.

Human Resource Management and Employee Lifecycle - Recruitment, Employment Management, Leave Management, Knowledge Management, Career Advancement, Training of Trainers (ToT) Management Finance, Accounts and Supply Chain - Budget & Accounts, Payroll Management, Research Project and Grants Management, Fee Management, Bill Management, Asset and Inventory Management.

Endowment Management Governance and Decision Support - Grievance Management, File Management & Tracking, Affiliation Management, Estate Management System, Residence Allocation Management, RTI Management, Legal Case Management, Minutes Resolutions.

Central Data Unit Other Facilities and Services - Organisational Structure, User Management, Core Communication System, Hostel Management, Service Desk Management, Library Integration, Content Federation System and Website APIs, Health Management System, Transport and Fleet Management, Security Management System, Sports Management System, Other Essential Services.

DUCC stands as a driving force behind the modernization and streamlining of university processes through the implementation of automation. With a commitment to efficiency and innovation, DUCC has successfully integrated automation solutions across various facets of the university's operations with Online Forms like Medical Reimbursement Form, No-Dues Form etc.

The automation facilitated by DUCC has played a pivotal role in fostering a more agile, responsive, and technologically advanced university ecosystem.

Samarth e-Gov Centre: The e-Gov Centre has been instituted with the primary objective of providing robust support to students, faculty members, and staff for a myriad of services offered by DUCC, including the DU eGov Samarth platform. Recognizing the diverse needs of its user base, the e-Gov Centre has implemented a multi-faceted support system, offering assistance through dedicated phone lines, WhatsApp, email channels, and in-person visits.

This comprehensive approach ensures that individuals within the university community have easy access to the help they need, whether it be technical troubleshooting, guidance on utilizing DU eGov Samarth services, or clarifications on various digital processes. By fostering open lines of communication through diverse mediums, the e-Gov Centre at DUCC plays a pivotal role in enhancing accessibility, user experience, and overall satisfaction with the digital services provided by the university.

Usage of Plagiarism detection tool: In an era where academic integrity is of paramount importance, the University has taken a proactive step to maintain the highest standards by providing its faculty members and departments with an online plagiarism detection tool, Ouriginal. This cutting-edge tool has become an integral component of the academic landscape, with approximately 1500 users currently benefiting from its capacities. As the adoption of Ouriginal continues to grow, it reflects the university's commitment to upholding academic honesty and fostering a culture of originality and intellectual integrity. This tool not only serves as a safeguard against plagiarism but also empowers faculty members to ensure the authenticity of academic work. DUCC is facilitating support to the University Users in the process.

Software Support: DUCC plays a pivotal role in fostering a technologically enriched academic environment by supporting the provisioning of various software to the university's academic community.

DUCC has secured a Microsoft Campus License, ensuring faculty members, staff and students to have access to essential tools such as the Windows operating system and Microsoft Office suite, along with various other Microsoft software applications. This comprehensive campus agreement with Microsoft facilitates a seamless digital experience for faculty and staff, enhancing productivity and collaboration. Notably, Microsoft Teams, an integral part of this license, empowers faculty members to conduct conferences and events with ease.

DUCC continues to provide a range of licensed academic software as listed below:

MATLAB, SPSS & AMOS, Mathematica, Synopsys TCAD, DNASTAR, NVivo, Cadence VLSI, Original Lab Professional, CLC Main Workbench, LabView, Ansys, PyMOL, COMSOL, Silvaco TCAD, CST Studio Suite, Cadence VLSI, PathWave Advanced Design System (ADS), Grammarly, CLC Main Workbench, STATA 18, GraphPad Prism, Gaussian Linux & Windows, Schrodinger Molecular Modelling Suit, Silvaco Victory, ChemDraw, NI Multisim, CorelDRAW.

These resources contribute significantly to the academic excellence and research endeavours of the university's faculty and researchers.

DUCC has also acquired a Campus License for Adobe Creative Suite, enabling DU faculty members and students to engage in their academic pursuits through creative design. This suite offers a comprehensive range of tools for graphic design, video editing, web development, and more. With access to Adobe Creative Suite, individuals within the DU community can explore their creativity and enhance their academic projects with professional-grade software solutions tailored for various disciplines.

University of Delhi also embraces and advocates use of open-source technologies. Open-source technologies are valued in educational settings as they provide flexibility in terms of customization and adaptation to specific educational needs. Open-source projects have active communities that contribute to their development and offer support. This encourages collaboration among students, faculty, and researchers, fostering a sense of community and shared knowledge. Embracing open-source technologies contribute to students' skill development as they gain experience with widely used tools and frameworks. VPN Facility for Faculty members to access e-Resources from home / anywhere Faculty members were provided with a VPN facility so that the e-Resources could be accessed remotely from their homes or anywhere.

Live Webcasting: There is provision of technical infrastructure for core events of DU viz. AC/EC meetings, Court Meeting and other key events. This includes Wi-Fi setup, computing facilities etc.

DUCC has been putting up all major events of University live e.g. Annual Convocation, Foundation Day, Centenary Events etc. DUCC is also maintaining a repository of Photographs and Video as glimpses.du.ac.in. Trainings Conducted at DUCC

DUCC has been at the forefront of promoting continuous learning and skill enhancement within the academic community by organizing a series of online training programs. These initiatives have been thoughtfully designed to cater to the diverse needs of faculty, staff, research scholars and PG students. The training programs encompass a comprehensive range of verticals, spanning from fundamental to advanced courses. Covering a spectrum of topics, these programs ensure that participants receive training that aligns with their proficiency levels and areas of interest.

By leveraging online platforms, DUCC has made these training sessions accessible to a wider audience, fostering a culture of continuous professional development within the university. The commitment to equipping the academic community with the latest skills and knowledge underscores DUCC's dedication to enhance the overall educational experience and technological expertise of its stakeholders.

Other Significant Information

Faculty Development Program on Cyber Security for Faculty members of Institute of Research Development and Information Training, was organised in Uttar Pradesh Kanpur on March 4-8, 2024.

Various Hands-on Training / Workshops for University Employees on various Samarth eGov portal and Workshop on Procurement through Government e-Marketplace (GeM) April 2023 - February 2024.

Training Programs in collaboration with ICT Academy - Industry Tech Talk: Future of Work and Society 5.0, One week Faculty Development Program on Communication and Presentation Skills in Classroom Teaching, Faculty Development Programme on Digital Training Skills, April, 2023 – February, 2024.

Training Programs for Awareness on Cyber Security – Cyber Suraksha Day, Faculty Development Program on Cyber Security, High Performance Computing, AI/ML and GenAI, Digital India Awareness, Faculty Development Program on Cyber Security July, 2023 – February, 2024.

Various Hands-on Training Programs for Faculty Members and Research Scholars of Departments to enhance knowledge about the softwares – Mathematica- Winter Introductory Session, Drillbit Extreme plagiarism Detection Software, Microsoft 365, SPSS in Research Data Analysis & AMOS V28, MATLAB May, 2023 – January, 2024.

PyDelhi Conference – Python Programming Language August 19 – 20, 2023.

Training on Admission Helpdesk June 13, 2023.

Data Management and Security for Large Institutions under ITEC Scheme of M/o External Affairs, Government of India April 3, 2023.

Facilitation of e-Procurement and GeM Delhi University Computer Centre serves as the central hub and singular point of contact for all e-Procurement and Government e-Marketplace (GeM) related utilities, catering to the diverse needs of the University community.

In its role, the Centre extends crucial support to administrative units and departments through the provisioning and facilitation of GeM and e-Procurement accounts. This comprehensive approach ensures that the University's procurement processes are streamlined and standardized.

Additionally, the Centre is committed to enhance the knowledge and capabilities of DU officials and faculty by organizing training programs. These programs are tailored to individuals from various administrative offices, departments, and colleges, empowering them to effectively navigate and utilize the GeM and e-Procurement platforms.

The impressive user statistics further underscore the DUCC's impact, with 924 users from 136 departments actively engaged on GeM, and approximately 624 users from 60 departments and 40 colleges participating in DU's e-Procurement system.

DELHI UNIVERSITY LIBRARY SYSTEM

Major Activities and Achievements

Delhi University Library System (DULS) is a federally managed combination of physical and virtual collections and associated information services, where in on the one hand, the traditional system of library holding is maintained and on the other hand, ICT based services are implemented. Library Surveillance System has been implemented in Central Library Complex. More than 1.5 lakhs e-books and digital Archives have been added. Library System exhibited Bibliometric analysis of 100 years journey of

University of Delhi at concluding function of Centenary Celebration. Bhumi Pujan has been performed for horizontal expansion of Central Library Complex.

The Library system has taken several measures to revamp the library and information services provided through its 33 constituent libraries, in keeping with the newly revised Ordinance XVI.

Honours/Distinctions

Chairman and Treasurer Governing Body, Aurobindo College

Member, Price Negotiation Committee for purchase of e-books for Uttarakhand Drinking Water Resources Development and Construction Corporation, Dehradun.

Chairman, Library Development Committee, Pandit Deen Dayal Upadhyaya Shekhawati University, Sikar, Rajasthan

External Expert on the Committee to conduct the skill test for the post of Library Assistant & Junior Library Assistant, Dr. B.R. Ambedkar College, University of Delhi.

Member, Recruitment Rules Committee, Delhi Technological University, Delhi.

Subject Expert in the Selection Committee for the post of Assistant Librarian, Atal Bihari Vajpayee University, Bilaspur, Chhattisgarh.

Subject expert for post of Assistant Librarian, Deputy Librarian and University Librarian, Deen Dayal Upadhyaya University, Gorakhpur.

Guest of Honour, All-Russia Forum “University Library : We can” as a key speaker and the Guest of Honour, National Research Tomsk State University, Russia.

Recipient of Erasmund ICM grant to participate in the International Staff Training Week, June 26-30, 2023, Freie University, Berlin, Germany.

Organized a Workshop on “Training the Trainers : Availability & Accessibility of e-Books & Digital Archives” on July 06, 2023 at ARC Building Auditorium, Institute of Life Long Learning (ILL), University of Delhi.

Facilities

Print Resources The Library System added 8622 volumes of books to its collection by purchase from Capital Assets Budget. The total collections as on March 31, 2024 are 1725327 volumes. The current print Periodicals subscribed by DULS is 974 which are renewed out of maintenance grant. It also held a well-organized collection of 49309 thesis/Dissertation.

Electronic Resources: The DULS continued to strengthen the accessibility of electronic resources to the users. There are 46 electronic databases in different subjects and disciplines that are available to the user community of the University. There were a total of 89443 in 2023 e-books in which a total 143838 in 2024 e-books were added during the year.

Digital Archives: The DULS is providing access to the following digital archives. Archive Title Modules

Adam Matthew Digital Archives - 13

Drama Online - 01

Gale Archives - 19

Audio Book Resources and Braille Library: The Braille Library is actively engaged in supporting teaching, learning and research for the visually impaired students and faculty members. It has 3 audio book production studios, and 1 high capacity Braille embosser. There are 1863 audio books, 2020 Braille books, 1873 e-text and 403 books in E-Pub format. Presently 15 members are enrolled in the library. It has circulated 2200 books on CDs and Pan drives. Braille Library is also a member of Sugamya Pustakalya under which the user can download the study material in the form of Audio Books or E-text by remote access.

Activities In Other Major Libraries:

Central Library (Including the Arts Library): The Central Library has been able to add a collection of 3096 volumes in the last financial year with a membership of 3985 users and the circulation of 108000 books. The library has been providing Plagiarism Checking Services to students and teachers. A dedicated desk has been established with trained staff to check research work and generate similarity reports. The Library is subscribing 272 periodicals in print format. The total collection of thesis and dissertation in Central Library is 42245. A large number of visitor from outside Universities like Agra, Banaras, Priyagraj, Rohtak, Mahendergrah, Kerala, Karnatak, and Mumbai etc visited the Library.

Central Science Library: The Central Science Library has a membership of 2867 users with circulation of 37680 books. The library received and sent a number of documents / articles to and from different libraries in the country through JCCC. The current periodicals subscription including print and online is 191.

Ratan Tata Library: The Ratan Tata Library has a membership of 1254 users. The RTL has augmented its computing facility and unique e-library with 107 terminals to access various resources and one High End server. The total periodicals subscription of RTL is 225 including print and online journals. It also has approx. -1500 thesis and dissertations in its collection. It also act as a deposit centre of UN's and Govt. of India's publications.

South Delhi Campus: The South Delhi Campus Library has been able to add a collection of 1965 volume in the last financial year with a membership of 1163 users and the circulation of about 19877 books. It has Subscription of 80 print journals, holds 16192 back volumes of periodicals and is fully computerized. Library activities like circulation-Issue-return, reminder, membership, Acquisition-ordering and billing, Serial Control, OPAC takes place in a fully automated environment using Troodon Library Management system.

Faculty of Music and Fine Arts Library: The Library of Music and Fine Arts has a total collection of 17067 books with a membership of 605 users. In its digital collection it has 2643 cassettes, 1187 CD's 104 Talking Books beside 344 Braille Books. As an extension of Audio Visual Library it has a Listening Room with 10 CD players where students can listen the audio material.

DU E-LIBRARY Platform was launched on December 3, 2021. The DU E- library is a latest initiative to connect with more users and serve them with millions of DU-subscribed and open access e-Resources, anywhere, anytime and on any device. The DU E-Library serves as a common gateway to:

20,000+ eBooks from top rated Indian and International Publishers including Wiley, Elsevier, Sage, DeGrutyer, Brill, IGI Global, World Scientific, Cambridge University Press and many gold standard open access publishing platforms.

25,000+ eJournals from most renowned publishers like SpringerLink, Taylor and Francis, OUP, CUP, ACS, IOP, Sage, DeGrutyer and more.

10,00,000+ eTheses and dissertations from 1000+ Universities from India and abroad.

1,30,000+ Video Lectures from IITs, IIMs, NITs, ISB, many foreign universities like MIT, Harvard, Yale, UCI, many publisher's broadcast channels like Royal Society of Chemistry and Ted-ED.

Legal Databases including LexisNexis, SCC Online, Westlaw and Manupatra.

News from 50+ eNews publications like TOI, The Hindu, CNN, Time, etc

Topic Collections on emerging areas in Science, Technology, Social Sciences, Arts and Humanities

1000s of Expert Talks and Literary Works in English, Hindi and Urdu for leisure reading.

The platform is also powered with:

1. A single click discovery window is available for scholars to discover latest research articles from all subscribed and open access publishers; thus, saving time and effort.
2. A Personal Reading List feature is prepared for students to save content for future reference.
3. An inbuilt remote authentication layer that makes all subscribed e-Resources accessible to students 24x7, from anywhere has also been developed.
4. Unique 'Socio Lib' feature that allow users to follow peers and discover library resources in a social manner. The DU e-library facility is also available on smart phones through the mobile app. A response team has also been setup by the service provider to cater to student requests and help them take full benefit of the platform.

Similarity Detection : The Central Library is continuing the work of similarity detection for the research assignment submitted by students during April 2023 to March 2024. Central Library has verified a total of 2089 Ph.D Thesis and M.Phil Dissertations, other research assignments and faculty research papers for promotions.

Information Literacy Programme : DULS continues its, information literacy activities with a view to empower the students, researchers and faculty members to seek, evaluate, use and create information effectively and efficiently. DULS organizes orientation programs, workshop and hands on training. Following are the program contents:

E-Resource Orientation Program

Online Information retrieval

Orientation to Open Access Education Resources

Bibliographic Citations

Copyright and Plagiarism

Citation Analysis Databases, Web of Science/Scopus

Federated/Meta Search services

Faculty Publication Corner : A faculty publication corner comprised of books written by the faculty members of University of Delhi is developed. In the main hall of Central Library.

Other Significant Information

DULS-Website which includes the catalogue of selected libraries(OPAC);a provision of e-referencing, A-Z list of E-journals, Online Information Literacy Tutorial, Subject Portal, Ask your Librarian, access to electronic resources including open access resources and several other user friendly features, is in operation.

E-Books: During the financial years 2023-2024 DULS has been able to procure a total of 54395 e-books titles in perpetual access mode. Presently, DULS has 143838 total numbers of e-books. The bibliographic details of these e-books have been incorporated in the DULS OPAC to provide access. Besides, an e-book search facility has also been developed for use by different stakeholders. It is available at www.eb.du.ac.in.

E-Resources Usage Report: The DULS has been very pro-active in organizing various online and physical programs used social media tools emails etc. to promote the usage of e-resources in teaching, learning and research. Usage Report of DU subscribed data bases for last five year (2019-2023) is placed at annexure-1. The Usage Report of digital archives and e-books are placed at annexure-2.

International Conference on Academic Libraries: (ICAL – 23) organized with a theme Transforming Academic Libraries, Evolution, Innovation Quality, Transfiguration during 5-8 April 2023 at the University of Delhi, New Delhi has established itself as a dynamic platform where Library and Information Science professionals from a large number of countries came together to share experiences, and develop standards, guidelines, reports and tools that would enable libraries worldwide to improve their practices. The deliberations at the Conference gave its participants an opportunity to share their experiences, build consensus, reconcile differences and create a future agenda for action.

The Conference succeeded to a great extent in converging the expertise of people from distant parts of the world. The participants were able to discover and deliberate on global trends and contemporary issues related to knowledge management and digital strategies that can lead to a future smart libraries.

ICAL 2023 provided a rich platform for idea generation in promoting the need to adopt new technologies. The session devoted to Exchange of Ideas saw a free flow of raw ideas and emerged as an important session. Several participants actively debated on their views on academic and other libraries. They argued that university libraries should not be viewed as stand-alone independent systems in the future. Rather, they must emerge as a holistic entity in cyberspace and collaborate for global reach. Further, it was emphasized that academic libraries should also develop new and innovative programs of national and international collaboration.

Organized within the framework of the centenary celebrations of the University of Delhi, the conference was held over 4 days. With more than 500 participants from a number of countries and speakers from various regions of the world, the Conference witnessed the participation from the United Kingdom, New Zealand, United States, Russia, Philippines, Singapore, Hong Kong, Sri Lanka, Thailand, Nigeria, France etc. It was a pleasure to deal with a large pool of 200 well researched papers, 20 technical sessions, 30 Invited Talks, panel discussions, a flagship workshop and global publications which defined the library profession. An agreement for co-operation and collaboration between Russian State Library and University of Delhi was signed. Library blogging, social media posts, tablet technology, and video production are some of the tasks recently added to the librarian's job.

The library conference of the decade, ICAL 2023, concluded with the promise for the future. The conference and its proceedings were discussed through social media and social tools such as Facebook and Twitter. The comment box on the library website was well utilized. In discussing academic libraries, it is

said that library reference services, subject resource guidelines and information literacy education are likely to be replaced by powerful AI and it is important that university libraries identify the avenues for such roles and create their unique irreplaceable space. All this is also shaping the new "digital readership" that libraries will serve. There was also agreement that sustainability should have a special place in the academic library, and that the SDGs provide a good framework for librarians to think about their collections, services and locations.

The event could be executed in smooth manner. Individual presenters did a remarkably wonderful job. The participants actively contributed through regular questions and kept atmosphere very lively throughout the programme. Libraries have continued to evolve to keep up with changing times while providing space for learning and community building. The ICAL 2023 deliberations have provided a platform for new knowledge and development. One of the conclusions of ICAL 2023 is to inspire attendees to participate in the conversation and build academic libraries. The main objective of ICAL 2023 is to prepare a roadmap that will eventually place university libraries at the centre of the country's education system. ICAL 2023 reflects a major contribution to assessing and forecasting the vision of a strong and integrated library sector.

DELHI UNIVERSITY SOCIAL CENTRE CO-ED SCHOOL

Major Activities and Achievements

Our Students actively participated in various extracurricular activities, including sports, arts and cultural events, Mental Maths Quiz Competition (at regional level). With the efforts of Prof. Hamendra Dangi (Chairman), and all the members of Managing committee, school received ₹ 20 Lakhs sanction from the University for purchasing of Capital assets.

Other Significant Information

The Highlight of the Year was our school's annual day celebration and 1st time in the school history, IAS Patil Pranjal Lehnsingh (Additional Director of Education) was the Chief Guest and the event was presided by Dr. Vikas Gupta (Registrar, University of Delhi). The celebration featured vibrant cultural programs with performances by our talented students and staff.

Honourable Prof. Yogesh Singh, Vice Chancellor of Delhi University laid the foundation stone of the school on October 17, 2023. We are highly thankful for University of Delhi, only because of their continuous support school is progressing and achieving new heights. School will be getting upgraded from secondary to Senior Secondary soon.

DELHI UNIVERSITY WOMEN'S ASSOCIATION

Major Activities and Achievements

The Heritage Walk on April 7, 2023.

“A Millet’s Day on April 15, 2024.

Earth Day on April 21, 2023.

Orientation programme on April 29, 2023.

Free Eye check -up camp on May 2, 2023.
 Summer Camp” on May 15, 2023 to June 9, 2023.
 International Yoga Day on June 21, 2023.
 DUWA donated food packets and others on July 14, 2023.
 ‘Art workshop’ on July 21, 2023.
 ‘Cultural Exchange Programme’ on July 29, 2023.
 Seminar on September 5, 2023 – ‘The Teachers we need for the education we want’
 ‘Senior Citizen’s day’ on September 30, 2023.
 YUVA SAMVAD on October 11, 2023.
 Exhibition /Carnival on October 27, 2023.
 Talk on “Exploring Therapeutic Effects: Yoga, Naturopathy and Homoeopathy” on February 13, 2024.
 Saraswati Pooja on February 14, 2024.
 Souvenir shop stall on February 24, 2024.
 Food Stall on March 1, 2024.
 Women’s Day on March 9, 2024 – ‘Women’s Reservation Bill: Challenges and Opportunities’.

Honours/Distinctions

Good practices award 2015 by Delhi University.
 An exemplar of women lead development Award 2024.

Facilities

Day Care centre
 Play School
 Hostel- Research Scholars
 Hostel - Working Women
 Naturopathy Treatment
 Homeopathy Treatment
 Counselling Services
 Yoga Facilities and skill development
 Tuition for underprivileged children
 DU Souvenir shop

Other Significant Information

It is an independent society of sixty years old with self-sufficient and all the elected members works as a volunteers. DU is the only Institution which has such kind of facility for community and social services.

DIRECTORATE OF HINDI MEDIUM IMPLEMENTATION

Major Activities and Achievements

The Directorate of the Hindi Medium Implementation publishes high standard text books in Hindi, primarily on Social Sciences and Humanities for the benefit of under-graduate and post-graduate students who opted for Hindi as the medium of their study. We have published approximately 280 books in various subjects including History, Political science, Education, Commerce, Law, Sports and Physical Education, economics, Philosophy, Geography, Literature, Music etc. so far.

For the year 2023-2024, Directorate has five new titles, five revised edition and more than hundred reprints ready to publish. Out of these 17 books are ready to be sent for printing soon including 4 new titles.

EQUAL OPPORTUNITY CELL

Major Activities and Achievements

Committed to the vision of an inclusive University and mission of empowering Persons with Disabilities, the Equal Opportunity Cell of the University has continued to endeavor towards the improvement of various facilities for such students during the period April 2023 – March 2024. Some of its salient activities are detailed below:

Volunteer Support: The Equal Opportunity Cell provides need-based volunteer support to students with disabilities for academic purposes. This year 9213 hours were utilized at the Equal Opportunity Cell from April 2022 –March 2023. This support has rendered significant help to students with disabilities in terms of them in reading, writing, scanning of books, e-conversion of texts, filling up online forms/offline forms etc.

Conversion of reading materials in an accessible format: The availability of material in an accessible format is vital for the study of visually impaired students. Thus, this year nearly one lakh pages were added to our collection of accessible reading materials. The Equal Opportunity Cell had done this work with KEBO Camera-Scanner. Through the help of this device, it will now be possible to convert books in Hindi and some other Indian languages into e-text format at a faster speed.

Admissions: The Equal Opportunity Cell provides necessary support and counseling to students with disabilities each year. As in previous years, assistance was provided to students with disabilities during the 2023-24 admission process for various courses at the University. Individualized guidance was given to these students and their parents, helping them resolve their queries and difficulties.

Purple Fest: As per the instructions from the President's Secretary, the Amrit Udyan at Rashtrapati Bhavan was opened exclusively for Persons with Disabilities on February 26, 2024. The Joint Secretary of the Ministry of Social Justice & Empowerment, Department of Empowerment of Persons with Disabilities, sent a letter to the Equal Opportunity Cell for the Grand Purple Fest. The Equal Opportunity Cell of Delhi University set up a stall at the event to highlight its activities and work. The Equal Opportunity Cell also distributed pamphlets to visitors, detailing its efforts toward the all-round development of life skills and ensuring the complete inclusion of persons with disabilities in all spheres of life. More than 1500 visitors visited the stall and obtained information about the EOC, Delhi University.

The above clearly demonstrates that despite limited resources, the University, through its Equal Opportunity Cell, has done its utmost to augment the support for students with disabilities, the EOC hopes to further expand its activities in the coming year.

FOREIGN STUDENTS REGISTRY

Major Activities and Achievements

There has been an increase among the international student community to seeking admission to various programmes offered by the University of Delhi for the academic year 2023-2024. The office of foreign students received **6125** applications. In total **622** students, from **66** different countries were admitted to the first year of various programmes ranging from certificates courses to Ph.D. Programme of the University of Delhi during the academic session 2023-2024.

Best Practices of Foreign Students' Registry:

Offering Integrated Services: Admission and stay of foreign nationals in the University has

been made convenient by providing updated information about Colleges/Departments/FRRO/Hostel Admission/ Facilities through online counselling.

Updated Website: The website has been equipped with various information regarding the process of admission and the associated statistics. It also provides useful information to students to make their stay and study at the University of Delhi an enjoyable experience.

Inter-Linkage with ICCR & Ministry of External Affairs, Government of India: An effective linkage has been achieved between these institutions which facilitates sharing information to candidates residing in other countries regarding the status of application for admission. As a part of it, the ICCR has opened its Regional office at the Main Campus of our University. This has facilitated our students hugely as they do not need to commute to the ICCR headquarters anymore.

Disseminating information: Disseminating Information about the queries of foreign students through email, phone, personal contact at FSR, universities abroad, alumni, Indian missions overseas, and other such means. In addition, we created a dialogue box on FSR website for foreign students.

Online Admission & Fee Collection: The practice introduced since 2019 for the collection of fees through online mode was continued this year also.

Appointment of one Nodal Officer in each College/Department/Institute/: The post-covid scenario has further necessitated the appointment of nodal officers in various Colleges. The role of nodal officer this year has been very important. The FSR office has a constant interaction with most of the foreign students. There was a series of interaction with various Foreign Students' Associations in our University.

Actions Taken by Foreign Students' Registry:

Counseling of foreign students: This is undertaken at the time of admission as well as on regular basis at the FSR office through personal contacts and convening of zoom meetings. For that the FSR office bought

dedicated Zoom. As all admission were done online and classes were also held online only, the interaction between newly admit students was possible through telephone calls and regular email.

Meeting with Ambassadors/Embassy Officials for the benefit of foreign students.

An Admission Committee was formed to supervise the complete admission process.

For the extension of visa, the FSR worked closely with FRRO as all such letters were issued only by email.

GANDHI BHAWAN

Major Activities and Achievements

International Day of Yoga 2023 was celebrated. A two-day National Conference on 'Yoga for Public Health and Prosperity' under the aegis of 'One World, One Health' was organized on June 22-23, 2023.

A special plenary session on 'Bharatiya Gyan Parampara me Yoga ka Yogdaan' was organized from June 21-27, 2023.

On October 1, 2023, a Swachata Abhiyaan was organized.

October 2, 2023 was celebrated as International Nonviolence Day.

Gandhi Bhawan in collaboration with Aadhya Jagnipith organized a National Seminar on 'Mahamati Prannath and Mahatma Gandhi' on October 20, 2023.

A one-day National Seminar on 'Libraries and Librarianship & 9th Padmashri PN Kaula Memorial Lecture on December 15, 2023.

Inaugural Ceremony of Library-cum-Seminar Hall was organized on January 12, 2024.

A special lecture on 'the Ideas of Gandhi & Tolstoy in Historical Perspective' on the occasion of 75 Years of India's Constitution - Hamara Samvidhan, Hamara Samman was organized on March 14, 2024.

Honours/Distinctions

DLIS@DU-Distinguished Faculty Award- 2024

आद्य जागनीपीठ श्री 5 महामंगलपुरी धाम, सूरत - शिक्षा के संत- 2024

AILL- Distinguished LIS Teacher Award- 2023

Vishwa Hindi Sahitya Parishad-Vishwa Bhageshwari Samman-2023

Facilities

Yoga & Meditation Practical Sessions - Monday to Friday 7:00 a.m. - 8:00 a.m.

Other Significant Information

Regular Academic Activities include:

Gita Discourse

Sunday: 10:30 a.m. – 11:30 a.m. by Swami Nityadipananda Ji of Ramakrishna Mission, ND

Yoga & Meditation Classes

Monday to Friday: 7:00 a.m. – 8:00 a.m.

Three months Certificate Course in Yoga and Meditation:

Classes held: Every Tuesday: 10:00 a.m. – 12 Noon (for female)

Every Friday: 3:00 p.m. – 5:00 p.m. (for male)

This course is being conducted on quarterly basis in hybrid mode.

Charkha Spinning Training & Certificate Course

Thursday from 3:00 p.m. – 5:00 p.m.

Khaddi Training & Certificate Course

Thursday from 10:00 a.m. – 5:00 p.m.

Gandhi Study Circles in Colleges of University of Delhi

Gandhi Bhawan has initiated Gandhi Study Circles in 56 Colleges of Delhi University to sensitize the University community at large and especially the college youth regarding Gandhian thought and action. An annual grant of Rs. 10K is being given to each college to organize programmes.

Hindi Prasar Kendra

Training of Typing & Shorthand in Hindi imparted to young minds by Hindi Academy, Govt. of N.C.T. of Delhi from Monday to Friday from 10:00 a.m. – 5:00 p.m.

Recently, they have added Desktop Computers to its classrooms instead of typewriters.

Apart from above, Gandhi Bhawan also collaborates with academic Institutions – viz. Departments and Colleges of University of Delhi and other academic entities, in order to propagate Gandhian Philosophy and Action. The programme includes cultural activities.

GARDEN COMMITTEE

Major Activities and Achievements

A mass tree plantation of native tree and large, medium & small shrub-planting involving 1608 saplings from diverse taxonomic plant families was conducted on 25th August 2023 onwards to enhance and rejuvenate green spaces under the aegis of Mission Life (Lifestyle for Environment), introduced by Hon'ble Prime Minister to rekindle a global pursuit to adopt sustainable lifestyle and practices. High quality saplings were gifted to the University Garden committee by alumni from Tata Power-DDL Ltd., and saplings raised by 'malis' of the University Garden committee were also used. This green endeavour to educate stakeholders about the essential role of plants for healthy ecosystems was initiated in 2018 with monsoon plantations.

Around 26 colleges, 11 Departments and 4 Hostels of the University enthusiastically participated in the Vriksharopan 2023 drive with tree and shrub species like 'Belpatra/Bael (Aegle marmelos)', 'Gulmohar' (Delonix regia), 'Mango' (Mangifera indica), 'Amla' (Phyllanthus emblica), 'Kac'.

Honours/Distinctions

Awarded 16 running cups and trophies for competing in various categories like lawns, gardens, medicinal, fruit, vegetable, flower, foliage plants grown in pots and hanging basket organized by Indraprastha Flower Show Society held on February 10, 2024.

Facilities

The ‘malis’ and staff of the University Garden Committee provided support in Decoration and Flower arrangements at Convocation Day, and various official functions/activities like seminars, conferences and lectures during the centenary Celebration of the University of Delhi throughout the day.

Other Significant Information

The 66th Annual Flower Show of the University of Delhi, based on the theme “Women Nurturing Nature — A Celebration of Synergy and Sustainability” was held on the March 1, 2024 at the Gautam Buddha Centenary Garden (opposite the Vice-Regal lodge), North Campus, University of Delhi. The event was inaugurated by Prof. Yogesh Tyagi, Hon’ble Vice-Chancellor in the presence of Dr. Vikas Gupta, the Registrar; Prof. Sri Prakash Singh, Director of South Campus; Prof. Payal Mago, Director, School of Open Learning; Prof. Rajni Abbi Proctor & Chairperson of Flower Show and other dignitaries of the University and beyond. The University Garden was resplendent with floral exhibits, succulents, cacti, foliage plants, bonsais etc that reflected the colours and diversity of spring blossoms and greenery.

A special showcase from the President's House and an educational stall spotlighting the nutritional and commercial potential of mushrooms were displayed at the event. Our distinguished guests Sushri Lahari Bai (millet ambassador of India) and Smt. Reeva Sood (Dragon Lady of India) also showcased their exhibits of traditional millet varieties and dragon fruits, respectively. A number of students competed in on the spot photography competitions.

Two new competitions were introduced as standi designing competition and slogan writing competition on the theme of the 66th Flower Show to celebrate significant contributions of the iconic women figures and elevate the stories of the lesser-known, less acclaimed women. The competitions were great success with participation of 22 Colleges of the University in standi competitions and more than 250 entries of Hindi and English slogan writing competition. 51 rolling shields, cups and trophies were awarded to various colleges, hostels/halls, schools and institutions that competed in categories of potted plants, lawns & gardens. The stupendous efforts of University gardeners (malis) were recognized and Best Malis were felicitated for their outstanding service towards upkeep of gardens.

INTERNATIONAL GUEST HOUSE

Major Activities and Achievements

Catering Arrangements: - Special catering arrangements were made to seven hundred forty five (745) booking requests received from Centenary Year Celebrations Committee, Conferences of the Departments and other Academic/Administrative committees meeting of the University and Colleges.

Rooms Accommodations: - During the period one thousand six hundred forty (1640) Guest Rooms were provided for boarding and lodging purpose of the guests invited by University and Colleges. Guest showed their utmost satisfaction and appreciated the services provided by the staff of I.G.H.

Facilities

New Facilities: - The following bellow mentioned new facilities were also added as per the need of IGH to provide safety and quality of dining services to the University guests during the year:

Installation of New Interactive Panel with Touch facility at Ground Floor Conference Hall with Speakers etc. to provide modern technology meeting facilities.

Start the process of development of the adjacent land situated at the southern side of I.G.H. main building to beatify as a garden.

Repair and Maintenance of the following bellow mentioned equipment's, furniture's and building of the IGH as per the need and also to provide comfort and quality of stay to the University guests during the year:

Routine Repair & Maintenance work: - Refilling of Fire Extinguishers, Pest Control of Kitchen, Electrical Fittings of the entire ground floor, Sanitary Fittings of the guest rooms, Air Conditioner of the guest rooms, Kitchen equipment's, Chairs of the Guest Rooms, Conference Hall and Committee Room and Cooking Station etc.

Repair & Renovation Work: - Complete renovation work of the Reception, Room No. 105 Washroom etc.

New Initiative: - Installation of AIRTEL DTH Connection for guest rooms, Installation of Pictures in all building, Replacement of old water tanks, Installation of wall clocks in all guest rooms etc.

Other Significant Information

Procurement of the following below mentioned items as per the need of the IGH and also to provide better quality of services to the University guests during the year

Linen items: - Bath Towel, Hand Towel, Table Cloths, Bed Sheets and Carpets etc.

Kitchen Utensils': - Crockery items and Moveable Cooking Station etc.

Guest Rooms: - Cloth Stands, Geyser, Refrigerators, 43-inch LED TV, 70 Inch LED TV and 75 Inch LED Touch Display etc.

Office: - All in One P.C.

NATIONAL CADET CORPS

Major Activities and Achievements

Enrolment of NCC Cadets in the Senior Wing and Senior Division at colleges under the University of Delhi was handled by the respective college NCC units. NCC Cadets took part in various university-level activities, such as the University Convocation, Road Safety Program, Republic Day, Independence Day, and Constitution Day celebrations.

NCC Cadets also actively participated in various national campaigns, including the Fit India Campaign, International Day of Yoga, Swachh Bharat Abhiyan (Clean India Campaign), Ekta Diwas (Unity Day), Tree Plantation initiatives, Ek Bharat Shreshtha Bharat Camp, CM Rally, Republic Day Camp, and Youth Exchange Programs. Additionally, the NCC Directorate Delhi organized activities such as the Combined Annual Training Camp, Special National Integration Camp, Pre-Republic Day Camps, CM Rally, and events like Amar Jawan Jyoti using a combination of hybrid modes and day camps.

NCC Cadets from various colleges within Delhi University actively participated in numerous events addressed by the Honorable Vice Chancellor. These events included the Guard of Honour, Viksit Bharat Run 2024, Seminar on Organ Donation Awareness, All India Commerce Conference as well as Independence Day and Republic Day celebrations. The cadets demonstrated their dedication and discipline, contributing significantly to the ceremonial aspects of these important university functions. Their involvement not only showcased their skills and commitment but also added a sense of pride and patriotism to the events.

Each year, NCC Cadets bring recognition and honor to the Delhi Directorate by securing admission to esteemed military academies in India through the NDA/CDS entry and the NCC Special Entry Scheme. Additionally, value-added courses on NCC have been incorporated in accordance with the National Education Policy's Undergraduate Curriculum Framework for 2022 (NEP UGCF 2022).

The extensive involvement and accomplishments of NCC Cadets in various activities, along with their notable contributions to the nation, highlight their dedication and commitment to both personal development and societal betterment were commendable.

NATIONAL SERVICE SCHEME

Major Activities and Achievements

International Day of Yoga, June, 21 2023.

Mere Maati Mera Desh Phase-I, August 9-30, 2023.

Swachhta Hi Sewa Campaign, September 15 to October 2, 2023.

Mere Maati-Mera Desh Campaign Phase-II, October 1-13, 2023.

Fit India Freedom Run 4.0, October 1-13, 2023.

Electoral Literacy Club, October 23, 2023.

National Unity Day, October 31, 2023.

Disaster Risk Management Training, October 30 – November 3, 2023.

Celebration of Constitution Day, November 26, 2023.

Commemoration of Veer Bal Diwas, December 26, 2023.

National Adventure Camp, November 25 to December 4, 2023.

Republic Day Parade Camp 2024, January 1 to January 31, 2024.

National Adventure Camp, January 9 to January 18, 2024.

National Youth Festival, January 12-16, 2024.

Pariksha Pe Charcha, January 29, 2024.

National Integration Camp, February 12-18, 2024.

National Integration Camp, March 12-18, 2024.

Exhibition match: SVEEP Initiative, March 16, 2024.

NON-COLLEGIATE WOMEN'S EDUCATION BOARD (NCWEB)

Major Activities and Achievements

Admission Process 2023-24: Webinar on NCWEB Admissions 2023-24 was organised on July 17, 2023.

The admission process had been completely online. Registration as well as the admission form was filled through online process. A separate Grievance Redressal mechanism was introduced for NCWEB students. 100% seats were filled under SC category in UG Admissions. Total Admission in UG Courses (2023-2024): 34614 (B.A.: 25275 + B.Com: 9339) Total Admission in PG Courses (2023-2024): 384 students admitted

Academic Performance (Result detail) 2022-2023:

PG Course: 594 (Pass with I Division)

B.Com: 10,295 (Pass with I Division)

B.A Prog: 19233 (Pass with I Division)

Facilities

Financial aids of ₹ 3000 was provided to 234 needy and deserving students during the year 2022-23 approx. amount ₹ 7,02,000.

Other Significant Information

Fresher cum Farewell for PG students (20 March, 2023 students: 500): NCWBB PG students celebrated new beginnings with #Fresher cum Farewell "ZEST", on 20th March, 2023 at Sir Shankar Lal concert Hall, University of Delhi. The event was graced by esteemed dignitaries Mr. Girish Ranjan, Finance Officer, University of Delhi, Prof. Balram Pani, Chairman, NCWEB, University of Delhi, Prof. Geeta Bhatt, Director, NCWEB and Dr. Surendra Kumar, Deputy Director, NCWEB.

Ms. Latika, a student of NCWEB Teaching Centre, Maharaja Agrasen College who has recently won the Silver Medal in singles and the Gold Medal in Doubles at the International Para Badminton Tournament in Uganda, Africa.

Non-Collegiate Women's Education Board (NCWEB) organized its 78th Annual Day Function for Under-graduate & Post-graduate students on April 6, 2023 in Sir Shankarlal Hall, University of Delhi. About 800 students from Under-graduate & Post-graduate courses of the NCWEB participated in the program. Prizes

were given to the meritorious students of Under-graduate & Post-graduate courses and cultural activities were the main attraction of the program with the theme “Our Culture, Our Pride” Dr. Vikas Gupta, Registrar, University of Delhi and Ms. Jyoti Chauthaiwale, Executive Member, Bhartiya Stree Shakti was the Chief Guest and Guest of Honour of the program respectively. Prof. Balaram Pani, Chairperson, NCWEB and Dean of Colleges, University of Delhi was presiding over the program.

A one day National Seminar 'Bharat Manthan-2023' was organised at Conference Centre, University of Delhi, in joint collaboration of Indraprasth Adhyayan Kendra (IPAK), Non-Collegiate Women's Education Board (NCWEB), The School of Sanskrit and Indic Studies, JNU and Chaudhary Charan Singh University, Meerut. The theme of the Seminar “Role of Today's Bharat in the Present Global Scenario” emphasized that India is playing role of 'Elder Brother' rather than 'Big Brother' in 21st century. One book was also launched named 'Bhartiya Gyan-Vigyan Parampara Maanav Drishti' by the IPAK in the event. 111 papers were presented and approx. 600 students, research scholars, teachers and other dignitaries were present at the event. The event ended with Kalyan Mantra.

Under the joint aegis of the Non-Collegiate Women's Education Board, University of Delhi and National Commission for Women, a program on “Capacity Building and Personality Development” for girl students of the University of Delhi was organised on Friday, May 19, 2023, at the Conference Centre of the University of Delhi. Ms. Meenakshi Negi was present on behalf of the National Commission for Women. The program aimed to target the holistic development of girl students of NCWEB, which will help them build a strong personality. NCWEB classes are conducted only on weekends, so these students do not get enough opportunities to improve their capability and personality compared to regular students.

The NCWEB organized a seminar to celebrate the G-20 Presidency of India. A student engagement session was organized by NCWEB Board in Miranda house NCWEB teaching centre in collaboration with Bhartiya Stree Shakti (NGO) on the theme “Women Development and India's G-20 presidency”. The main speaker of the session was Advocate Bansuri Swaraj (Supreme Court and W-20 Delegate). Other dignitaries were Dr. Jyoti Chauthaiwale (Member Bhartiya Stree Shakti), Professor Rajni Abbi (Proctor DU and Chairperson Miranda House), Professor Geeta Bhatt (Director NCWEB), Professor Bijayalaxmi Nanda (Principal Miranda House) and Sonali Chitalkar (TIC NCWEB).

The Delhi University Centenary closing Ceremony was held on 30th June, 2023 marked a momentous occasion for the academic institution, commemorating 100 years of excellence in education and research. As a part of the closing celebrations, the Non-Collegiate Women's Education Board (NCWEB) students were given a unique opportunity to interact with the Honourable Prime Minister of India, Shri Narendra Modi.

The Non Collegiate Women's Education Board, Deen Dayal Upadhyaya College Centre in collaboration with Bhartiya Stree Shakti organized a special lecture on the topic "India is safe" featuring national-level mountaineer, Indian athlete and cyclist Ms. Asha Malviya on September 2, 23.

To achieve the goal of a Swachh Bharat, 'Swachhta hi Seva' is an initiative of the government to make cleanliness an integral aspect of everyone's life. On the occasion of the 'Swachhta Hi Seva' campaign, various centres of NCWEB undertook a cleanliness drive on October 1, 2023, to observe the 'Ek Tareekh Ek Ghanta' and sensitised the society through various initiatives. The campaign called for action on the part of the entire community to devote a minimum of one hour on October 1, 2023, at 10 AM, to undertake a cleanliness drive that includes cleaning the vulnerable sites prone to waste and garbage.

NCWEB in collaboration with The Asia Foundation and Sambhav Foundation has initiated a project titled 'Skills2Work: Upskilling Women for a Smooth Transformation to the Formal Economy'. The project orientation session was held at #NCWEB Hansraj College Centre on September 23, 2023. Prof. Geeta Bhatt, Director NCWEB, Ms. Nandita Baruah, Country Representative of India of The Asia Foundation, Mr. Balaji Sarma, COO of Sambhav Foundation, Hansraj College Principal Prof. Rama, TIC Dr. Ritika Grover and Dy. Coordinator Mr. Khemchand Arora graced the event. This project will train 2000 NCWEB students with Training curriculum that includes a diverse range of courses developed by corporates like VISA, Microsoft, Common Purpose and more. The project orientation received a good response from more than 500 students present.

The Non-Collegiate Women's Education Board, Delhi University, organized a Two-Day National Seminar on 'Women in Decision Making Roles in Corporates' in collaboration with National Commission for Women on 2nd and 3rd November 2023, Friday, at the Conference Centre of Delhi University. In this seminar, over 600 registered participants from University of Delhi and other institutions across the country participated. In addition to Delhi University, there were a total of 123 registrations for research paper presentations from institutions like JNU, Uttarakhand University, Jamia Millia Islamia, Allahabad University, Meerut University, etc., out of which more than 80 research papers were presented. The Hon'ble Ms. Delina Khongdup, Member, National Commission for Women, was the chief guest of the Inaugural session of the National Seminar. The seminar was graced by the Hon'ble Vice Chancellor of Delhi University, Prof. Yogesh Singh, Prof. Sushma Yadav (Pro Vice-Chancellor, Central University of Haryana) as Guest of Honour, Prof. Balaram Pani (Dean of Colleges, University of Delhi & Chairperson of NCWEB), Prof. Geeta Bhatt (Director, NCWEB) and Dr. Surendra Kumar (Deputy Director, NCWEB) were among the dignitaries who graced the session.

CIVIL-20 is one of the oldest vertical of G-20. The CIVIL-20, during Bharat's Presidency was under the tutelage of Mata Amritanand Mayi. The CIVIL-20 launched an online campaign worldwide called as the one million like campaign. NCWEB is Proud to Collaborate with Civil-20 this online campaign. The campaign encourages global nominations for individuals, organizations, and initiatives promoting gender equality and women's empowerment. Each nomination was displayed on a digital global map, symbolizing collective efforts and progress. Nominees had received gratitude notes from the organizations. One million nominations were received on 22nd April 2023 which is also celebrated as Earth Day, this created a ripple effect of inspiration and positivity, making a brighter, more positive future for all. Other Partner organizations were UNICEF/UNESCO/Rising Flame/AIDS Healthcare Foundation etc.

January 22, 2024 was a historical day in the timeline of Bharat whereas 'Pran Pratishtha' of Lord Ram took place at Ayodhya. To celebrate this moment NCWEB in collaboration with YUVA (YUVA Distance Learning) organized an online program titled "JAN JAN MAI RAM". Dr. Surendra Jain addressed to NCWEB students through an online platform from Ayodhya.

An event themed Viksit Bharat @2047 was organized at Shankar Lal Auditorium, North Campus, on February 13, 2024. Multiple competitions, which include poetry, quizzes, poster making, essay writing, extempore, slogans, and meme making, were held throughout the day, with participants showcasing their talent and creativity.

NCWEB Centre of Satyawati College Evening has organized a self-defence programme on 25th Feb, 2024 association with the UDANKAAR NGO for the students of our centre. Almost 750 students participated in the programme. Ms. Preeti, the instructor of UDANKAAR NGO, who trained the students how to come

out from the tough situation and how to protect ourselves from the bad element of the society. All the students enjoyed the training session a lot. The Self-defence program was being done at present in all the 26 NCWEB Teaching Centres.

MOU was signed between University of Delhi and The Asia Foundation for NCWEB students for conducting Skill2Work Program in consonance with the vision of Viksit Bharat @2047 at New Delhi on March 12, 2024. This program was meticulously designed to enhance digital literacy, employability-linked soft skills, and personal financial management, underpinning the vision of Viksit Bharat @2047 and the empowerment of women. Supported by VISA through The Asia Foundation's Skills@Work program, this strategic initiative underscores our commitment to equipping our students for a competitive edge in the job market and integrating them into the technically driven formal economy.

Organized a program in collaboration with YUVA Distance Learning on March, 2024, at the I.P College of Delhi University. Hon'ble Kashmiri Lal Ji (Eminent Social Worker), Adv. Pratima Lakra (Supreme Court), Ms. Ramita Jindal (Gold Medalist, Rifle Shooter) and Prof. Balaram Pani (Chairperson, NCWEB), were among the dignitaries who graced the session. Almost 500 students participated in the program.

The Non-Collegiate Women's Education Board Bharati College Teaching Centre, Delhi University, organized a program in collaboration with National School of Drama on 27-30 March, 2024, at the NCWEB teaching Centre Bharati College. The Program Started with the enchanting rhythms of Manipuri ambience dance, setting the perfect tone for an evening of theatrical brilliance. . Two Plays, Uchayi in Hindi (27 March) and Saral Barta in Bengali (28 March), were enacted in the Auditorium of Bharati College.

DEAN STUDENTS' WELFARE

Major Activities and Achievements

The Office of Dean Students' Welfare at the University of Delhi is dedicated to promote welfare activities that contribute to the comprehensive and well-rounded development of students. In the academic year 2023 - 2024,

Placements and Internships- The Central Placement Cell (CPC) serves as a bridge between the academic institution and the industry.

Grievance Redressal- The Office of Dean Students Welfare is dedicated to provide social, mental, and career counselling to students.

Counselling- In addition to its core functions, the Office of Dean Students' Welfare conducts various awareness campaigns to educate students about their rights, duties, and responsibilities.

Financial Support Scheme- The Financial Support Scheme for the academic year 2023-24 introduced a fee waiver program.

Vice Chancellor Internship Scheme- Beginning in the academic year 2022-2023, the University introduced a valuable initiative.

Orphan Quota- Beginning in the academic year 2023-2024, the University has introduced a more humane approach towards.

UNIVERSITY GUEST HOUSE

Major Activities and Achievements

The University Guest House provides services of boarding and lodging facility for the visitors came to attend various academic and non-academic meetings at University of Delhi and its affiliated/constituted colleges. University Guest House serve Lunch/Hi-Tea and Dinner etc. for University of Delhi various Academic/Non-Academic meetings.

Facilities

University Guest House has 33 rooms in the main building and 06 rooms in Bamboo Cottage. All rooms have the facility of attached bathroom, phone, TV etc. All rooms are occupied with two bed facility.

University Guest House provides free Wi-Fi facility and DTH facility to the resident guests.

University Guest House has a kitchen to provide hygienic and delicious meals to resident guests in dining hall with the sitting capacity of around 35-40 persons at a time.

University Guest House has a Conference Hall with the sitting capacity of around 70-80 persons at time equipped with mike and projector facility for meetings etc.

University Guest House has a committee room for meetings with the sitting capacity of around 10-12 persons at time.

Other Significant Information

During the year total numbers of 1241 rooms were provided to the University Guests.

During the year total number of 27514 special catering arrangements for Lunch/Dinner and Hi-Tea was made by U.G.H. for various University Academic and Non-Academic Meetings.

Procurements: - Procurement of the following below mentioned items as per the need of the UGH and also to provide better quality of services to the University guests during the year:

- 50 Blankets for Guest Rooms.
- 48 Bed Sheets for Guest Rooms.
- 60 Bed Covers for Guest Rooms.
- 05 Geysers for Guest Rooms.
- 24 Pillows for Guest Rooms.
- 60 Pillow Covers for Guest Rooms.
- 66 Towels for Guest Rooms.
- 32 Electric Kettles for Guest Rooms
- One Big Cooler for Kitchen.
- 122 Curtains for Guest Rooms (Room No. 01 to 20).
- 40 telephones for Guest Rooms, Reception, Office, Kitchen, Dining Hall etc.
- 02 Water Dispensers

Repair & Maintenance of the following bellow mentioned equipment's, furniture's and building of the UGH as per the need and also to provide comfort and quality of stay to the University guests during the year:

Repair of Water Cooler near Kitchen.

Repair of four door big Refrigerator installed in Kitchen.

Change of all the upholstery/foam of the existing wooden furniture installed in the rooms (wooden table, Chair, Sofa Chair etc.) with polish and Change of all upholstery/foam of the Committee Room sofas and Dry cleaning of Lounge easy chairs.

Complete rewiring and reinstallation of EPABX system in Guest Room, Reception, Office, Kitchen, Dining Hall etc.

WORLD UNIVERSITY SERVICE HEALTH CENTRE

Major Activities and Achievements

Provided emergency health services during various Tournaments.

Appointed one Medical Officer (Part-time) and one Visiting Dental Surgeon in W.U.S. Health Centre (North Campus) and one Visiting Orthopaedician in W.U.S. Health Centre (South Campus).

Facilities

Facilities : W.U.S. Health Centre (North Campus) : Neurology (once per week), Psychiatry (once per week) Cardiology (thrice per week), Orthopaedics (five days per week), E.N.T. (five days per week), Pediatrics (four days per week) Dermatology (four days per week) Ophthalmology (thrice per week) Ayurveda and Naturopathy Services (six days per week) Dental (two hours, six days per week in Morning and three days in Evening) Physiotherapy Cinico-Pathology Laboratory Dressing Medical Store Pharmacy Nursing Ambulance Services W.U.S. Health Centre (South Campus) : Cardiology (thrice per week) Ophthalmology (thrice per week) Dental (twice per week) Physiotherapy Dressing Medical Store Pharmacy Nursing Ambulance Services.

Other Significant Information

Health check-up camps, Cardiac check-up camps, Diabetes detection camps, Fibroscan, HbA1c, Bone Densitometry Scans and Continuing Medical Education Programms were organized.

Vaccination Camps.

Medical Examination of new appointees for joining University of Delhi & its maintained Colleges and for commutation of pension.

Timely disposal of various queries of the W.U.S. Health Centre beneficiaries.

Timely holding of Medical Boards.

Timely disposal of medical reimbursement bills for expenses incurred on the treatment.

Maintenance of robust and resilient supply chain system.

Celebrated World Health Day 2023 with great fanfare Theme of World Health Day 2023 is 'Health For All'.

Celebrated World Heart Day 2023 with great fanfare Theme of World Health Day 2023 is 'Use Heart, Know Heart'.

HOSTELS

AMBEDKAR-GANGULY STUDENTS HOUSE FOR WOMEN

Major Activities and Achievements

On 15th August, Independence Day was celebrated by hoisting the National Flag, followed by the singing of the National Anthem and the distribution of sweets among the residents and staff. This was followed by Diwali celebrations on 12th November 2023, which included lighting up the hostel building and celebrating the festival in a traditional way with diyas and sweets. On 30th December 2023, the Fresher's party was organized in a gala way to welcome the new residents. Christmas Day was celebrated by singing carols and cutting a cake. The festival of Lohri was celebrated on 13th January 2024 by lighting a bonfire. On 26th January 2024, Republic Day was celebrated by hoisting the National Flag, singing the National Anthem, and distributing sweets and snacks among the residents and staff. On 25th March 2024, Holi (festival of colours) was celebrated with colours, and sweets were distributed among staff and students.

Number of Students

PG Students

74

M.Phil/Ph.D.

13

Facilities

Ramp for PWD

Common Room (T.V. & Projector)

Computer Room (Air-conditioned)

Library (Air-conditioned)

Mess (Air-conditioned)

PWD-friendly washroom

Gymnasium (Cardio-vascular equipment)

Laundry Room (fully automatic washing machines)

Solar Water Heater

Fridge, microwave, and hotplate on each wing of each floor

Water purifiers

Cleaning staff for cleaning residents' rooms and common areas

Extensive lawns for morning and evening walks

Badminton court

CCTV surveillance

In view of the students' conveniences, the following purchases/facilities have been made and provided to the hostel residents during the period 2023-24:

Two hot plates

Four geysers

Four microwave ovens

One washing machine

Four refrigerators

One toaster

Two room heaters

One water dispenser

Other Significant Information

The annual function of the Hostel was celebrated on 7th March 2024 with pomp and show. The theme of the annual function was "Inspire Inclusion." Hon'ble Justice Girish Kathpalia, Judge of the Delhi High Court, was the Chief Guest, and Ms. Deepti Kathpalia, Advocate of the Supreme Court, was the Guest of Honour. The students performed several musical and cultural activities on the stage, which were highly applauded by the guests. This was followed by a sumptuous dinner and a jam session.

ARAVALI POST GRADUATE MEN'S HOSTEL

Major Activities and Achievements

Hostel celebrated the Republic Day and the Independence Day with high students' participation.

Number of PG Students

76

Number of M Phil/PhD Students

56/20

Best Practices

In order to simplify the admission process in the Aravali, Hostel adopted the online admission and fee payment system in the current admission session.

Facilities

Every room is equipped with a Bed, Mattress, Study Table, Study Chair, Curtains, LED light, fan, Easy chair and a white Laminated Board. Hostel has a double occupancy Guest Room equipped with the Air Conditioner and Heat Convector, as well as a Utility Room with the Desert Cooler. Hostel has the Common

Room which has been equipped with high-definition TV set along with the D2h service. The Hostel also has a Reading Room with the Dozens of Newspapers and Magazines as well as excellent Sports facilities for Indoor Games like Table Tennis, Chess and Carom etc. Wi-Fi facility for smoother and faster internet service to the residents has been provided. Laundry facility is also made available to the residents.

Other Significant Information

Aravali hostel has also maintained lush greens, beautiful landscape, around the hostel.

CENTRAL INSTITUTE OF EDUCATION HOSTEL

Major Activities and Achievements

The process of Installation of CCTV in the Hostel and surroundings under process had been successfully completed.

Number of PG Students

42

Number of M Phil/PhD Students

05

Best Practices

This year hostel organized a Nature Walk, Festivals Holi, Id-ul_fitr, Dussehra, Diwali, Christmas Day were celebrated in the Hostel.

Facilities

Three Water Coolers for cold water are installed in Hostels, one each in Men's and Women's Residence and third in Hostel Mess Dining Hall.

Three R.O. Water Purifier Systems are installed with the Water Coolers in the Hostel.

There are four washing machines installed in the Hostels, two each in Men's & Women's Residence.

There are Five Geysers for Hot Water are installed in Hostels, two each in Men's & Women's Residence and fifth in Hostel Mess Kitchen.

LED TV with Dish.

Visitors Room for Guests

Four Newspapers for Residents, two each in Hindi & English.

Round the Clock Security for the Residents

Everyday Dusting & Cleaning of Hostels and Dustbins had been kept in each Room of the Hostel.

Mess Dining Hall for the Residents.

Part Time Electrician for day-to-day electrical problems being faced by the Residents.

WUS Health Centre Membership compulsory for all the Residents on a nominal fee. Residents can visit the Health Centre to meet the Doctor in case of Health emergency.

Wi-Fi Facility being provided to Residents from DUCC.

D.S. KOTHARI HOSTEL

Major Activities and Achievements

D. S. Kothari Hostel is named after Late Professor D. S. Kothari, who was an eminent physicist and educationist. The hostel was established in 1997 on the occasion of the Platinum Jubilee of the establishment of the University of Delhi. The hostel policies are decided by the Management Committee under the guidelines and policies of the University of Delhi, which has 40 rooms (for two students jointly) and 19 (for single students) respectively to accommodate postgraduate students and research scholars of the University. Various programs were organized in the hostel between April 2023 to 31 March 2024, which made the atmosphere of the hostel quite enthusiastic and cordial. Various activities were carried out during the given period.

Number of Students

UG Students

4

PG Students

68

M.Phil/Ph.D. Students

22

Best Practices

Along with all the national days, popular festivals like Lohri and Makar Sankranti, Deepotsav, Republic Day, Saraswati Puja, Holi Milan, Iftar, Ambedkar Jayanti and Ram Navami were organized. Lunch festivals of different states were celebrated on the occasion of New Year. A visit to Delhi was organized for a local tour. Along with this, the hostel mess could be operated smoothly, for which a deep freezer, water purifier, cupboard, utensils etc. were purchased. A purchase committee for the hostel residents was constituted as per university norms for purchase of new items and replacement of old non-repairable items. The notification and admission process for admission for the session 2023-24 on the hostel website was completed smoothly.

Facilities

T.V Room

Gym Room

Common Room

Parking
Security
Washing Machine
PWD Ramp
PWD Toilet

GEETANJALI HOSTEL

Major Activities and Achievements

This year the hostel celebrated its annual day, 'Mridang,' on March 16, 2024. The program started with the University kulgeet and lamp lighting by guests. This was followed by vibrant cultural performances by the hostel residents. The hostel also organized Independence Day on 15th August 2023, and Republic Day on 26th January 2024, which included flag hoisting and sweet distribution followed by cultural programs.

Number of Students

UG Students

0

PG Students

79

M.Phil/Ph.D. Students

25

Best Practices

Security of the hostel has been given utmost importance. For this, an RFID system has been installed at the entry door of the hostel. After 8:00 pm, the hostel residents can enter through the RFID system only. The common room and office area were also refurbished, and new appliances were procured. Strong emphasis is laid on hygiene and cleanliness in the mess, and quality standards are routinely monitored.

Facilities

Hand sanitizers
Well-equipped gym and sports equipment
Television in common room
Music system with speaker
Reading room
Sanitary pad dispensing machine

Library with some books for general reading

Refrigerators

Induction cooktop for each floor

Microwave

Washing machines

Other Significant Information

The hostel is secured with sufficient lighting on the premises and four CCTV cameras in relevant areas. Four security guards rotate duties to maximize their efficiency. The hostel has posters on anti-ragging, anti-substance abuse, and ethical eating habits in the mess. Sanitization of the hostel premises is done regularly. Anti-mosquito repellent spray is used frequently. Hand sanitizer dispensers have been fixed on the walls for visitors and staff. There are also plans to expand the hostel building.

GWYER HALL

Major Activities and Achievements

The hostel celebrated Ambedkar Jayanti, Holi, Diwali, New Year, Lohri, Saraswati Puja, etc. Gwyer Hall won second prize in the 66th Annual Flower Show 2024 and fourteen other awards in various categories. Gwyer Hall has organized and conducted the following programs:

A “Delhi Vishwavidyalaya Shikshak Samman Samaroh” on 15th February 2024 for newly appointed Assistant Professors in different colleges of Delhi University.

Gwyer Hall organized the Shivrajyaabhishek program.

Number of Students

UG Students

08

PG Students

53

M.Phil/Ph.D. Students

55

Best Practices

Gwyer Hall received the Kalicharan Aggarwal Award for the second highest marks in the 66th Annual Flower Show 2024. Gwyer Hall also received the following awards in the flower show:

The Delhi School Economics Cup

The Diamond Jubilee Cup

The Department of Zoology Cup

The Ved Prakash Cup

The Garden Committee Cup

The Flower Show Committee Cup

Facilities

Air-conditioned Computer Room, Common Room, and Reading Room

Purified drinking water for all the residents

Free washing machines for residents

PwD facilities

Online gas connections installed in the kitchen

New ceiling fans installed in the rooms

Staff quarters renovated

Duck system replaced in the mess

10 four-halogen street lights converted into LED flood street lights

Other Significant Information

Committees:

The Disciplinary Committee for the Holi Festival was constituted under the chairmanship of the Warden of the Hall:

Dr. K. N. Tiwary, Warden, Gwyer Hall – Chairman

Mr. Govind Singh, J.A./Caretaker – Member

Mr. Vibhav Kumar Tiwary, Resident – Member

Mr. Sanjay Kumar, Resident - Member

The Purchase Committee consisting of the following members:

Dr. K. N. Tiwary - R.T.

Mr. Baljit Singh - Section Officer

Anti-Sexual Harassment Committee:

Dr. Akash Deep Nagal, Resident Tutor, Convenor

Mr. H. C. Singh, Section Officer (Offg.), Member

Mr. Souhardya Chatterjee, Member

Mr. Biswarup Ghosh, Member

Anti-Smoking & Anti-Substance Abuse Drugs Committee:

Dr. K. N. Tiwary, Warden, Convenor

Mr. Govind Singh Rawat, J.A./Caretaker, Member

Mr. Sanjay Kumar, Member

Mr. Chandan Kumar, Member

Anti-Ragging & Disciplinary Committee:

Dr. K. N. Tiwary, Warden, Chairman

Mr. H. C. Singh, Section Officer (Offg.), Member

Mr. Vaibhav Kumar Tiwari, Member

Mr. Mayank Singh, Member

North Eastern Students Committee:

Dr. K. N. Tiwary, Warden, Convenor

Mr. Govind Singh Rawat, J.A./Caretaker, Member

Mr. Tenzin Zamba, Member

Mr. Kandhasamy, Member

International Students' House

Major Activities and Achievements

Since its inception, the International Students' House (ISH) has excelled in fostering cultural diversity through various activities. Notable achievements include vibrant celebrations of national festivals like India's 76th Independence Day and other cultural events, enriching the understanding of diverse cultures among students. Initiatives such as Swachhta Pakhwada promoted cleanliness on campus, aligning with the Swachh Bharat Abhiyan. The ISH Sports Competition in February 2024 promoted camaraderie and showcased talents from diverse backgrounds, incorporating the principles of Khelo India for the first time. The 57th Annual Fest, Milestone "2023," featured cultural performances from students and artists worldwide, emphasizing ISH's role as a global cultural hub. Additionally, ISH's outreach extended to community welfare, with successful distribution of warm clothes and essentials to the underprivileged during December. These endeavors not only enriched the student experience but also demonstrated ISH's commitment to cultural exchange and community service.

Number of UG Students

12 (foreigner)

Number of PG Students

37

Number of M Phil/PhD Students

20

Facilities

ISH continues to offer a range of facilities, including common rooms, computer rooms, reading rooms, washing facilities, a canteen, gymnasium, guest rooms, sports facilities, Wi-Fi, telephones, security/CCTV, geysers, and water coolers with R.O. purification. → Common Room: Spacious common room is provided, which has a place for constructive activities like indoor games, discussions and get together within the hostel. The common room is equipped with a big screen TV set with cable connection from Tata Sky. The hostel provides the students with daily newspapers and various magazines to make them aware of the daily happenings in the world. → Computer Room: The computers with internet facility are available for all residents. The computer connected to the University network can be accessed for academic pursuits. → Reading Room: ISH has an air-conditioned reading room for the study purpose for its residents. → Washing Room: The ISH has semi-automatic washing machines which are being used by the residents regularly. → Canteen: A canteen also runs in the hostel premises for refreshment to the resident and their guests in addition to House mess. → Gymnasium: ISH has a gym with a number of equipments such as treadmill, home gym cycle, weights etc., which help the residents to exercise and keep themselves fit & healthy. → Guest Room: A guest room is available only to the parents and the sister if accompanied by parents of the bonafide residents. → Sports: The house provides facilities for indoor as well as outdoor games like Carrom, Chess, Badminton, Table Tennis, Cricket, Football etc. ISH has a large playing ground as well. → WI-FI: The house also provides 24/7 Internet Access with Wi-Fi facility to its residents through Delhi University Computer Centre. → Security/CCTV: The hostel campus is CCTV-enabled to cater the safety requirements. Security Guards are available on the gates round the clock to provide a secure environment to its residents. → Geysers: The basic need of hot water is very important for all the students' especially in winter; the house provides Geysers in each bathroom for hot water supply in the winter. → Water Cooler: The house has two Water Coolers attached with R.O. water purifiers to provide safe and pure drinking water round the clock. These water purifiers are routinely checked and cleaned in the supervision of office staff and students.

Other Significant Information

In summary, ISH remains a hub for cultural exchange, academic pursuits, and community building. The year 2023-24 was marked by significant achievements, cultural celebrations, and environmental initiatives, contributing to the growth and well-being of its residents and the broader community.

INTERNATIONAL STUDENT'S HOUSE FOR WOMEN

Major Activities and Achievements

The hostel celebrated various events throughout the year:

Id-ul-Fitr on 22-04-2023

Yoga Day on 21-06-2023

Independence Day on 15-08-2023: Flag hoisting, sweets, and special breakfast

Diwali Celebrations on 11-11-2023 to 12-11-2023: The house was decorated with lights, and a party with lights, diyas, and a lavish dinner was held. Residents wore traditional outfits and enjoyed the festivities.

Fresher's Party on 15-12-2023

Christmas on 25-12-2023

New Year on 31-12-2023

Lohri on 13-01-2024

Republic Day on 26-01-2024

Annual Guest Night on 10-02-2024: Themed "The World is One Family," attended by dignitaries from various embassies and officials from the University of Delhi.

Annual Flower Show on 01-03-2024: ISHW won the best Mali Award.

Holi on 25-03-2024: Celebrated with a splash of colors.

Annual Picnic on 19-04-2024

Farewell Party: To be celebrated in April 2024 for the outgoing residents who will relive and narrate the wonderful time they had spent in the house.

Number of Students

UG Students

20

PG Students

56

Ph.D. Students

18

Best Practices

The hostel has all student-related committees such as the Cultural Committee, Sports Committee, Library Committee, House-Keeping Committee, Mess Committee, Anti-Ragging Committee, Sexual Harassment Committee, Anti-Smoking Committee, Holi Committee, Disciplinary Committee, Caste-Based Discrimination Committee, and Drug-Free Committee. All committees are displayed at appropriate places. Display signage relating to the Anti-Ragging Committee.

Facilities

The hostel has 98 well-furnished rooms containing a single bed, almirah, mattress, curtain, study table, chair, etc.

The whole house campus is CCTV-enabled to provide a secure environment for its residents.

Visitors' Lobby, Committee Room, Medical Room, Dining Hall, Library, Reading Room, Lounge Room (with LCD projector, big screen, and sound system), Badminton court, Internet Room, TV room, Gymnasium. There are pantries on every floor. The bathrooms are equipped with solar heaters for hot water through geyser and solar system. The house provides Wi-Fi facility to its residents. The entire house complex is equipped with Wi-Fi connections.

RO water coolers are available on all floors. Fully equipped pantry with electric heater, microwave, water dispenser, electric kettle, and two fridges—one for vegetarian residents and another for non-vegetarian residents on all four floors.

Washing of clothes for all residents is done by our laundry attendant in the laundry room, which consists of five fully automatic washing machines situated on the ground floor. A separate ironing room is also available on the 1st - 3rd floors of ISHW.

Complete gymnasium on the 3rd floor with modern equipment.

Fully air-conditioned dining hall on the ground floor.

In case of electricity failure/breakdown, genset facility is provided in the entire complex of the ISHW.

24x7 security is provided to the students.

First aid kit is available. Residents are members of WUS Health Centre, (DU).

Other Significant Information

To enrich hostel life for both students and staff, the following is ensured:

Monthly get-together and special dinner with the hostel residents and staff. This has facilitated bonding among the residents, staff members, and hostel authorities.

Participation of staff and residents in Yoga Day.

Regular interaction of the hostel authorities with the staff to address their grievances, if any.

Educational trip (annual picnic) organized for ISHW residents.

JUBILEE HALL

Major Activities and Achievements

The Hall functions under the control of Provost Prof. Sunil Kumar Sharma, Warden Prof. Subhash Anand, and Resident Tutor Dr. Netrananda Sahu. To keep harmony and its basic character of “Unity in Diversity,” the Hall celebrated all festivals, including Saraswati Pooja, Holi, Id, Independence Day, Deepawali, and Christmas with a lot of gaiety and enthusiasm.

Number of Students

UG Students

2

PG Students

48

M Phil/PhD Students

47

Facilities

Mess: The mess in the Hall is run on a no-profit, no-loss basis by a Mess Committee under the supervision of the Provost, the Warden, and the Resident Tutor. The Mess Committee functions in accordance with the mess rules framed by the Provost in consultation with the Jubilee Hall Students' Union.

Common Room: The Hall has a jumbo-sized Common Room equipped with various means of entertainment like a 65-inch LED TV, Table Tennis, and Carrom. The Hall also serves as a knowledge spot, providing various daily newspapers (English and Hindi) and magazines, where students can gain insight into national and global events.

Computer Room: The Hall provides internet-connected computer facilities to the residents. There is an air-conditioned Computer Room that provides space to work on computers and offers printing facilities.

Gymnasium: The Hall has a large Gymnasium equipped with all types of modern body maintenance machines, emphasizing the importance of physical and mental health.

Parent's Guest Room: There is a fully furnished air-conditioned guest room in the Hall available for the parents of residents at a nominal charge.

Canteen: The Hall has a canteen run on a contract basis, providing quality food to residents under the supervision of the Jubilee Hall Students' Union and the Hall Administration.

Reading Room: The Hall has an air-conditioned Reading Room with a seating capacity of 20-25 residents at a time.

Laundry Facility: There are 12 semi-automatic machines installed on each floor of the Hall for residents' use with minimal maintenance charges.

MANSAROVER HOSTEL

Major Activities and Achievements

On Independence Day and Republic Day, the Provost, Prof. Surendra Singh, unfurled the flag. All hostel residents, staff, and guests were present. Festivals such as Dushera, Diwali, Lohri, Holi, Sunderkand Path, Shivratri Puja, Iftar Party, Eid, Saraswati Puja, Christmas, Gandhi Jayanti, and Ambedkar Jayanti were also celebrated in the hostel premises.

The hostel Residents' Union organized an Oath Ceremony, Fresher's Party, Farewell Party, and New Year celebration.

Hostel residents participated in various outdoor and indoor games throughout the year.

The hostel Residents organized programs on topics such as National Education Policy, Corporal Punishment, different Indian Folk Dances, and against the use of acids and discrimination against acid attack survivors.

Number of Students

UG Students

3

PG Students

119

M Phil/PhD Students

24

Best Practices

Mansarovar Hostel is a men's hostel for full-time post-graduate and research students with a capacity to accommodate 163 residents from various parts of India and abroad for higher studies at the University of Delhi.

Facilities

Dining Hall: Serves quality vegetarian and non-vegetarian food for residents. Guests and others may have meals after buying coupons.

Reading Room: A well-lit, furnished AC room provides good space for studying/reading.

Computer/Internet Room: Available for all bona fide residents, connected to the University network for academic pursuits.

Common Room: Equipped with a big screen TV with cable connection.

Newspaper Room: Newspapers and magazines are available for residents.

Gymnasium: Located on the top floor, equipped with modern machines to help residents stay fit and healthy.

Guest Room: Furnished guest room available for parents and immediate family members of residents, visiting scholars, and researchers. The room must be booked in advance through the Hostel office, with checkout before 12 p.m. (Noon).

Visitor's Room: Furnished Visitor's room available.

Cafeteria: Run by a contractor, serving food and beverages at reasonable rates approved by hostel authorities. Open seven days a week from morning until late evening.

Laundry: Semi-automatic washing machines available in all washrooms for resident use.

Telephone/Fax/Photostat: A shop within the hostel premises provides daily-use stationery, printout, scanning, lamination, and photocopying services.

Generator Room: Provides emergency power.

Health Centre: Residents can enroll as members of the World University Service (WUS) health centre maintained by the University of Delhi, providing basic and emergency health treatment at a negligible cost.

Other Significant Information

Committees:

Managing Committee:

Chairman: Prof. S.P. Singh, Department of Sanskrit

Provost: Prof. Surendra Singh, Mansarover Hostel

Warden: Dr. Netrananda Sahu, Mansarover Hostel

Resident Tutor: Dr. Vikramendra Kumar, Mansarover Hostel

Proctor: Prof. Rajni Abbi, Faculty of Law

Dean Student's Welfare: Prof. Pankaj Arora

Member, MC Nominee: Prof. Madan Lal, Department of Commerce

Member, MC Nominee: Prof. Raj Kumar, Department of English

Member, MC Nominee: Prof. Rakesh Kumar, Department of Chemistry

Member, MC Nominee: Prof. Radhey Shyam, Department of Environmental Studies

Student Representative: Hostel Union President

Student Union:

President: Prabhat Chaubey

Vice President: Karanveer Saini

Cultural Secretary: Vishwdeep Raj

General Secretary: Anubhav Raj

Sports Secretary: Nikhil Kapoor

Anti-Ragging Committee:

Dr. Netrananda Sahu, Warden - 9910850478, Email: babunsahu@gmail.com

Dr. Vikramendra Kumar, Resident Tutor - 9650884540, Email: bardhan.vikramendra@gmail.com

Mr. Prabhat Chaubey, President of MSH Student's Union - 8210213891

Disciplinary Committee:

Prof. Surendra Singh, Provost - 9582554189, Email: ssingh@chemistry.du.ac.in

Dr. Netrananda Sahu, Warden - 9910850478, Email: babunsahu@gmail.com

Dr. Vikramendra Kumar, Resident Tutor - 9650884540, Email: bardhan.vikramendra@gmail.com

SC/ST/OBC Committee:

Prof. Surendra Singh, Provost - 9582554189, Email: ssingh@chemistry.du.ac.in

Dr. Netrananda Sahu, Warden - 9910850478, Email: babunsahu@gmail.com

Dr. Vikramendra Kumar, Resident Tutor - 9650884540, Email: bardhan.vikramendra@gmail.com

North Eastern Committee:

Dr. Netrananda Sahu, Warden - 9910850478, Email: babunsahu@gmail.com

Dr. Vikramendra Kumar, Resident Tutor - 9650884540, Email: bardhan.vikramendra@gmail.com

Mr. Alex Khonjuju - 8259862273, Hostel Resident

Anti-Smoking Committee:

Dr. Netrananda Sahu, Warden - 9910850478, Email: babunsahu@gmail.com

Dr. Vikramendra Kumar, Resident Tutor - 9650884540, Email: bardhan.vikramendra@gmail.com

Mr. Prabhat Chaubey, President of MSH Student's Union - 8210213891

Sexual Harassment Committee:

Prof. Surendra Singh, Provost - 9582554189, Email: ssingh@chemistry.du.ac.in

Dr. Netrananda Sahu, Warden - 9910850478, Email: babunsahu@gmail.com

Dr. Vikramendra Kumar, Resident Tutor - 9650884540, Email: bardhan.vikramendra@gmail.com

MEGHDOOT HOSTEL

Major Activities and Achievements

Throughout the academic year 2023-24, Meghdoot Hostel saw a variety of initiatives and energetic activities. Here is a list of some of them:

Celebration of Independence Day on 15.08.2023 (The Meghdoot Hostel enthusiastically celebrated Independence Day. A special guest was present.)

Celebration of Diwali on 12.11.2023 (The festival of lights, Deepawali, was joyfully observed. The hostel was elegantly decorated and lit. The hostel residents made rangoli and participated in ethnic dance and enjoyed music with a special feast.)

Celebration of Christmas Day on 25.12.2023

Celebration of Republic Day on 26.01.2024 (The Provost, Warden, Resident Tutor, and students raised the tricolour flag.)

Participation in Flower Show on 01.03.2024

Celebration of Holi on 25.03.2024

Celebration of Iftar Party on 11.04.2024

Number of Students

PG Students

70

M Phil/PhD Students

9

Best Practices

Zero waste management, partial AC Common Room, safe accommodation, 24-hour reading room availability for students, quick resolution of student grievances, no food wastage.

Facilities

TV Room
Dining Hall
Computer Lab
Laundry Room
Security Room
Medical Room
Study Room
PWD Study Room
Common Room
Gym Facilities
CCTV

NORTH EASTERN STUDENTS HOUSE FOR WOMEN

Major Activities and Achievements

During the year, Independence Day, Fresher Night, Christmas, Lohri, Republic Day, Holi, and Annual Guest Night were celebrated by the residents. Ms. Mercy Epao, Joint Secretary, Ministry of MSME, was the chief guest.

Number of Students

PG Students

101

Best Practices

Efforts are made to maintain as much greenery as possible in and around the hostel premises. Organic manure used is prepared by the staff through mulching and composting. Chemical fertilizers are fully avoided.

Facilities

The hostel provides the following facilities to its residents:

Air-conditioned Common Room with LED TV and music system
Laundry Room equipped with four fully automatic washing machines
Each floor has a hot plate, refrigerator, microwave, and water cooler
Air-conditioned Computer Room with internet facility
Air-conditioned Reading Room with the latest magazines and newspapers
Major RO system for drinking water

Badminton Court
CCTV Surveillance
Solar Water Heater
Gymnasium (Cardio-vascular equipment)
Extensive lawns for morning and evening walks

Other Significant Information

Our hostel gardener effectively handles the organic manure landfill. Residents and the authorities of the hostel ensure plastic waste is placed in specific plastic dustbins, promoting waste segregation at the initial point.

POST-GRADUATE MEN'S HOSTEL

Major Activities and Achievements

An Inter-Hostel Sports Meet was organised in July 2024.

Number of Students

UG Students

7

PG Students

55

M Phil/PhD Students

17

Best Practices

Eid and “Iftar” celebrated in April 2023.

“G20 Summit Talk” held on 12.06.2023 (Invited speaker: Prof. Abhishek Tandon, Department of Operational Research, University of Delhi).

Sports Meet held in July 2023.

Flag hoisting ceremony held on Independence Day (15.08.2023).

Diwali festival celebrated with the illumination of the hostel building.

Christmas celebrated on 25.12.2023.

New Year's Eve celebrated with the illumination of the hostel building on 31.12.2023.

Lohri festival celebrated on 13.01.2024.

“Shri Ram Mandir Pran Pratishtha Mahotsav” held on 22.01.2024.

Flag hoisting ceremony held on Republic Day (26.01.2024).

Saraswati Pooja held on 14.02.2024 in the hostel premises.

Holi celebrated on 25.03.2024.

Facilities

TV/Common Room

Air-conditioned Library cum Computer Lab with internet and Wi-Fi facilities

Gymnasium with motorized treadmill

Laundry and semi-automatic washing machines on each floor

Photocopy outlet

Canteen

Two Badminton Courts

Other Significant Information

Committees:

Common Room: Organizes common room activities

Cultural: Organizes cultural activities and events

Health & Hygiene: Ensures cleanliness of the hostel

Sports: Organizes sports activities

Mess: Organizes mess menu and purchase of raw materials

Anti-Ragging and Disciplinary: Prevents ragging and resolves related issues

Holi: Prevents Holi hooliganism in the hostel

Anti-Smoking: Prevents smoking in the hostel premises

RAJIV GANDHI HOSTEL FOR GIRLS

Major Activities and Achievements

RGHG hostel organized one of the annual grand events named “RAGAAZ - 2023” on 06th May 2023. Prof. K Ratnabali, Dean, Academic Activities and Projects, University of Delhi, was the Chief Guest, and Prof. Ritushree Kukreti, Senior Principal Scientist, IGIB, CSIR New Delhi, was the Guest of Honor. More than 1000 people, including authorities from other DU hostels, residents, their guests, etc., participated in this event. The intention was to encourage the hostellers to enjoy together by celebrating the “Unity in Diversity” of our nation “Bharat,” as hostel residents come from all across India. Cultural programs included songs, dances, fashion shows, poetry recitals, etc.

The sports day was organized in the hostel on 24th and 25th April 2023 to create awareness of the importance of sports, fitness, and health. Many games like tug of war, badminton, basketball, etc., were enjoyed by residents.

Number of Students

UG Students

NIL

PG Students

469

M Phil/PhD Students

51

Best Practices

The hostel received a Zero Waste Campus certificate on 24-05-2023 from the Municipal Corporation of Delhi.

Cleanliness workshop: A workshop was organized by Mr. Yogesh Pant, DMSWSL, IEC, MCD on 12-09-2023 in RGHG hostel. The purpose of the workshop was to create awareness about the waste collection, segregation, and disposal procedure in accordance with SWM Rule 2016 among the sanitary workers, supervisors, admin staff, etc., which was attended by the hostel staff.

A session on Art of Living was organized on 01-10-2023, 02-10-2023, and 08-10-2023 to train the residents about fitness, mental health, and psycho-social well-being.

The hostel has its own waste composting machine, and all the biodegradable waste is processed, treated, and used as fertilizer. It is a slow and simple process.

Facilities

Common Facilities: The hostel has two common rooms and one visitor's room. Television with cable is also provided. Other facilities include a spacious air-conditioned reading room and library, and a tuck shop. There is a storeroom in each cluster to keep luggage when vacating the hostel. An induction plate is available on each floor of every cluster. Water coolers with R.O. units are installed. Four dispensers are also available for drinking water for the residents. Round-the-clock security is provided. The hostel premises are secured with CCTV cameras at strategic points to ensure the safety of the residents. It is a complete smoke and vehicle-free zone with well-maintained lawns and gardens that add beauty to the hostel.

Medical Facilities: The residents of the hostel get an opportunity to be enrolled as members of the World University Service (WUS) Health Centre (HC), University of Delhi. WUS provides basic as well as emergency health treatment. In case of a medical emergency, the resident is taken to the nearest available hospital, and the local guardian is informed to take charge of their ward. Besides, there is a medical room with first-aid facilities.

Sports Facilities:

Gym Room: Basic exercise equipment – Cycles, Dumbbells, Cross Trainer, Aerobic Steps

Indoor Games: Table Tennis, Carom, Ludo, Chess

Outdoor Games: Basketball, Badminton Courts, Yoga Mat, Skipping Ropes

Other Significant Information

The hostel proved its mettle by participating in the 66th Annual Flower Show held on 1st March 2024 by giving different entries of flowers and lawns and has been awarded two first prizes – The Dr. A.C. Janaki Amma Cup and The Faculty of Law Cup.

The hostel inaugurated its own underground water tank on 29-12-2023 to deal with the water crisis in summer. For this, the hostel is very grateful to the Hon'ble Vice-Chancellor, Prof. Yogesh Singh.

The hostel accommodates residents from other universities or institutes for attending conferences. Some details are as follows:

Wise IPR Internship in Miranda House: 56 participants stayed in the hostel from 22-01-2024 to 25-02-2024.

BS program in CIC: 13 participants stayed in the hostel from 31-01-2024 to 04-02-2024.

KK Luthra International Moot Court Competition in CLC: 32 participants stayed in the hostel from 14-03-2024 to 17-03-2024.

SARAMATI POST GRADUATE MEN'S HOSTEL

Major Activities and Achievements

Hostel celebrated the Republic Day and the Independence Day with high student's participation.

Number of PG Students

126

Number of M Phil/PhD Students

126

Best Practices

Saramati P.G. Men's Hostel adopted the online admission and fee payment system in the admission session.

Facilities

It has the capacity to accommodate 130 students on twin sharing basis. Each resident in the hostel is provided with a bed, bed mattress, study table, chair, white laminated board, almirah, fan, LED light, shoe rack and curtains. Hostel has recreation room fitted with high-definition LED TV set along with DTH service and common reading place with dozens of newspapers and magazines. The hostel provides gymnasium and sports facilities for indoor games such as table tennis, chess, carom-board etc. The hostel also provides sport gears for cricket, football, badminton and several others. Hostel is equipped with modern Wi-Fi facility to provide smoother and faster internet service to the residents.

Other Significant Information

The Saramati Post Graduate Men's Hostel has been established by the North East Council, Ministry of Home Affairs, Government of India and University of Delhi. It provides residential facility to the students from the north eastern parts of the country studying in University of Delhi as well as other students pursuing academic programs and bonafide students of South Campus. It is one of the modest and well-equipped hostels of the University. As per the MoU signed between University of Delhi and North East Council, Ministry of Home Affairs, Govt. of India, 70% of seats are reserved for students belonging to North Eastern states. However, if seats reserved for North Eastern States students remain vacant, these seats would be made available to other students.

SOCIAL WORK HOSTEL

Major Activities and Achievements

CCTV surveillance in addition to security services.

Number of PG Students

44

Number of M Phil/PhD Students

5

Best Practices

Green lawns; groves and gardens are well maintained

Facilities

The hostel campus is quite friendly towards persons with disabilities. Its entrance has been modified and fitted with ramps to suit their special needs. There are forty nine rooms; a students' managed Mess with well-furnished kitchen and dining facilities; three drinking water points with reverse osmosis filtering facilities; an Air Conditioned common room; two sick/isolation rooms (one in each wing); a meeting room; office rooms; Warden's residence; lush green lawns; groves and gardens; a bore well in addition to municipal water supply; CCTV surveillance in addition to security services; TV with DTH services in the common room; and a number of newspapers, magazines and periodicals. DSW Hostel has its own website <http://dswh.du.ac.in> which provides information about the hostel. There is a provision for security in the Department campus throughout the day. For the hostel, there is an additional security during the night time. Two security guards provide their services in two shifts daily. Fire safety measures are also in place.

Other Significant Information

The Department has its own hostel. The Head of the Department is the provost of the hostel. The foundation stone of this hostel was laid by Mrs. Durgabai Deshmukh, Chairman, Central Social Welfare Board, Government of India on 25th July, 1962. The Hostel became functional from 16th July, 1966. Being an attached hostel within the Department premises, it adds to the development of overall personality of the social work students and helps in reinforcing their professional elements. This year hostel facilities were

opened for the students and it was occupied to its capacity of single sitter rooms. In the current academic session, fifteen women and nineteen men students (totalling 49) are being accommodated in forty-nine rooms.

UNDERGRADUATE HOSTEL FOR GIRLS

Major Activities and Achievements

The hostel organizes various events to keep the students engaged in productive activities. This year, a farewell celebration for the 3rd-year students was organized by the students on 08.05.2023. The Art of Living Program was organized by the Resident Tutor in the common room on 02.10.2023. A fresher party celebration for the 1st-year students was organized by the students on 03.10.2023, and a small orientation program for students was organized on 05.10.2023. Lohri was celebrated on 13th January 2024 with the lighting of a huge bonfire. The national flag was hoisted by the Provost, Warden, and Resident Tutor on 26th January 2024. Mrs. Ekta Sekhari from the Foundation for a Drug-Free World acted as a resource person and held a session on Truth About Drugs and Preventing Youth on 17th February 2024. An International Women's Day celebration was organized on 08th March 2024 with Dr. Neha Aneja. Holi was celebrated on 25th March 2024 with organic colors.

Number of Students

UG Students

622

Best Practices

Lush green lawns and flower beds greet the residents. The walls are decorated with pictures, keeping alive India's rich heritage. CCTV cameras are installed in common areas and at the gates for the students' security. There are disabled-friendly washrooms and ramps. All fees are collected online. The mess serves four meals a day, including the facility for packed lunch. The hostel adopts green practices, including waste segregation, composting garden waste, switching to eco-friendly LED lighting, minimal paper usage, and constructing one underground water tank.

Facilities

Common Room

Computer Lab

Two Reading Rooms

Gymnasium

Sports Room

Library

Visitors' Room

Medical Room with medical facilities, including a daily nurse and doctor's visits thrice a week

Two TV Rooms

The hostel also has a well-ventilated Dining Hall

Laundry Room

Tuck Shop

Badminton Court

Basketball Court

Table Tennis Court

Other Significant Information

During the 2023-24 period, the following committees were constituted:

Anti-Smoking Committee

Anti-Sexual Harassment Committee

Anti-Ragging Committee

Racial Discrimination Committee

Nodal Officer for North-East

Holi Committee

Nodal Officer for Tobacco-Free Campus

UNIVERSITY HOSTEL FOR WOMEN

Major Activities and Achievements:

Independence Day, 15th August 2023: Residents and staff commemorated India's Independence Day with patriotic fervor, singing the National Anthem and patriotic songs.

Swachh Bharat Abhiyan, 2nd October 2023.

Republic Day, 26th January 2024: The day began with the hoisting of the national flag, followed by stirring renditions of the National Anthem and patriotic performances, concluding with the distribution of sweets. A Viksit Bharat selfie point was also created.

Inauguration of IGL and Open Gym, 2nd February 2024: In the valedictory ceremony of the Golden Jubilee year, UHW inaugurated an IGL connection and an Open Gym, graced by the esteemed presence of Prof. Balaram Pani, Dean of Colleges, and Prof. K.P. Singh.

Women's Day Celebration, 8th March 2024: Residents, hostel staff, and authorities celebrated Women's Day, with Prof. Ratnottama Das as the Chief Guest, an esteemed ex-resident of UHW.

Number of Students:

PG Students

132

M Phil/PhD Students

59

Best Practices:

Committees:

Disciplinary Committees:

Anti-Ragging Committee

Anti-Smoking Committee

Gender Sensitization Committee

Committee against Sexual Harassment and Disciplinary Committee

Committee for North-East Students

Mess Committee: Residents actively participated in Mess management, with a dedicated Mess Committee led by the Mess Secretary.

Resident Association: In February 2024, Resident Association Elections were conducted, electing representatives chosen by the residents.

Facilities:

Common Room

Reading Room

Visitor's Room

Sick Room

Resident Association Room

Laundromat

Common Refrigerator for Residents

Common Television for Residents

Multipurpose Hall

Badminton Court

Open Gym

Other Significant Information

Established in 1973, University Hostel for Women (UHW) is a landmark of the University of Delhi. The Hostel accommodates 320 postgraduate and research women students from across India and abroad, fostering the spirit of womanhood. This year marks its 50th Anniversary (Golden Jubilee year).

V.K.R.V. RAO HOSTEL

Major Activities and Achievements:

The hostel celebrated national days, including Independence Day, Republic Day, and Gandhi Jayanti, with enthusiasm. Independence Day and Republic Day were marked by the hoisting of the tricolor flag to promote national integration. Festivals such as Diwali, Holi, Lohri, Saraswati Puja, and Christmas Eve were celebrated with enthusiasm, adhering to COVID-19 protocols. The cultural events commenced with the Freshers' welcome and concluded with a farewell party.

This year, the hostel organized its annual function 'Umang-24' at Sir Shankar Lal Concert Hall, presided over by University Proctor Prof. Rajni Abbi. The event included cultural, literary, and intra-hostel sports competitions.

Number of Students:

PG Students

Capacity of 108 Residents

M Phil/PhD Students

10

Facilities:

Guests' facilities for residents' guests

Guest Rooms for Parents only

Medical Facilities

Mess and Dining Hall

Canteen

Computer, Internet & Wi-Fi Facilities

Common Room

Gym & Sports Events

First Aid Box

Book Bank

Laundry Services

Reading Room

Visitors' Room

Hostel Security with CCTV Cameras

PwD Friendly Resources

WUS UNIVERSITY HOSTEL

Major Activities and Achievements:

WUS University Hostel for Women accommodates Ph.D. students, University teachers, visiting faculty, and post-doctoral researchers. It has a capacity of 18 rooms. The Hostel was taken over by the University from the World University Science in 1990.

Number of Students:***M Phil/PhD Students***

18

Facilities:

The following facilities are provided to the residents:

Visitor's Room [AC]

Colour TV

Refrigerators on both floors & Kitchen

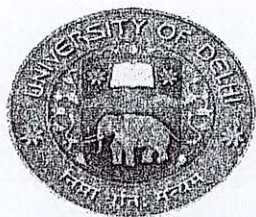
Newspapers [Hindi and English]

CCTV

Washing Machine

The residents celebrate various festivals such as Diwali, Saraswati Puja, Christmas, Holi, New Year, etc. The Mess is run by residents on a cooperative basis. However, the infrastructure for the Mess facility is provided by the Hostel.

ANNUAL ACCOUNTS
(2023-2024)



UNIVERSITY OF DELHI

BALANCE SHEET AS AT 31st MARCH, 2024

₹ in Crores

Particulars	Schedule	Current Year	Previous Year
SOURCES OF FUNDS			
CORPUS/CAPITAL FUND	1	(2396.11)	(2388.36)
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	1269.10	1199.95
CURRENT LIABILITIES & PROVISIONS	3	4406.53	4106.88
TOTAL		3279.52	2918.47
APPLICATION OF FUNDS			
Tangible Assets	4	759.37	759.98
Intangible Assets	4	0.44	2.14
Capital Works-in-Progress	4	48.70	3.47
INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS	5	0.30	63.81
INVESTMENT - OTHERS	6	----	----
CURRENT ASSETS	7	2211.38	1953.26
LOANS, ADVANCES & DEPOSITS	8	259.33	135.81
TOTAL		3279.52	2918.47
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		

Dated: 24th June, 2024



UNIVERSITY OF DELHI

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2024

₹ in Crores

Particulars	Schedule	Current Year	Previous Year
INCOME			
Academic Receipts	9	195.57	153.52
Grants / Subsidies	10	927.66	766.11
Income from Investment	11	11.86	2.23
Interest Earned	12	1.07	1.59
Other Income	13	11.38	10.58
Prior Period Income	14	17.21	4.30
Increase in Stock		5.13	1.02
TOTAL (A)		1169.88	939.35
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15	731.06	1039.35
Academic Expenses	16	92.21	91.67
Administrative and General Expenses	17	143.40	142.89
Transportation Expenses	18	1.59	1.35
Repairs & Maintenance	19	22.34	34.61
Finance costs	20	0.00	0.01
Depreciation	4	37.07	35.64
Expenditure on Grants, Subsidies etc.	21	171.30	16.93
Prior Period Expenses	22	30.46	37.28
TOTAL (B)		1229.43	1399.73
Balance being excess of Income over Expenditure/ (Expenditure over Income) (A- B)		(59.55)	(460.38)
Transferred to / from Designated Fund Corpus/ Capital Fund (Schedule 1)			
Balance being Surplus/(Deficit) carried to Corpus/Capital Fund		(59.55)	(460.38)
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		
Dated: 24th June, 2024			

UNIVERSITY OF DELHI
BALANCE SHEET AS AT 31st MARCH, 2024

Particulars	Schedule	Amount in ₹	
		Current Year	Previous Year
SOURCES OF FUNDS			
CORPUS/CAPITAL FUND	1	(23961121933)	(23883612378)
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	12691000029	11999545279
CURRENT LIABILITIES & PROVISIONS	3	44065344541	41068792016
TOTAL		32795222637	29184724917
APPLICATION OF FUNDS			
FIXED ASSETS			
Tangible Assets	4	7593779903	7599842715
Intangible Assets	4	4373281	21379611
Capital Works-in-Progress	4	486953324	34675556
INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS	5	3000000	638100000
INVESTMENT – OTHERS	6	-----	-----
CURRENT ASSETS	7	22113772485	19532636063
LOANS, ADVANCES & DEPOSITS	8	2593343644	1358090972
TOTAL		32795222637	29184724917
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		

Dated: 24th June, 2024

UNIVERSITY OF DELHI
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2024

Particulars	Schedule	Current Year	Amount in ₹ Previous Year
INCOME			
Academic Receipts	9	1955684572	1535159573
Grants / Subsidies	10	9276555987	7661138800
Income from Investment	11	118570538	22273788
Interest Earned	12	10720946	15944141
Other Income	13	113802487	105797565
Prior Period Income	14	172050731	43015515
Increase in Stock		51397839	10242765
TOTAL (A)		11698783100	9393572147
EXPENDITURE			
Staff Payments & Benefits (Establishment expenses)	15	7310619278	10393472688
Academic Expenses	16	922130688	916744953
Administrative and General Expenses	17	1433992765	1428926768
Transportation Expenses	18	15850771	13549903
Repairs & Maintenance	19	223444102	346093041
Finance costs	20	41942	83093
Depreciation	4	370717209	356437186
Expenditure on Grants, Subsidies etc.	21	1713006026	169301972
Prior Period Expenses	22	304555831	372807549
TOTAL (B)		12294358612	13997417153
Balance being excess of Income over Expenditure/ (Expenditure over Income) (A- B)		(595575512)	(4603845007)
Transferred to / from Designated Fund Corpus/ Capital Fund (Schedule 1)			
Balance being Surplus/(Deficit) carried to Corpus/Capital Fund		(595575512)	(4603845007)
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		
Dated: 24th June, 2024			

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

		Amount in ₹	
SCHEDULE 1 - CORPUS/CAPITAL FUND	Current Year	Previous year	
Balance at the beginning of the year	(23883612378)	(19896737698)	
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure			
(a) Plan/OBC Grant etc.	119443909	53431387	
(b) FRP/CPDHE (0875)	-----	11102404	
(c) Capital Assets	160370084	135534087	
(d) Amount Released (under EWS Grant) to CPWD on deposit basis for ongoing construction work	35000000	314813993	250000000
Add: Assets Purchased out of Earmarked Funds			450067878
(a) Miscellaneous Accounts	8204266	8366595	
(b) Other Earmarked Funds	159981584	117603352	
(C) Endowment Fund	2674871	170860721	-----
Add: Assets Donated/Gifts Received	1647	742	
Add: Assets transferred to University after closure of Projects	34116621	34118268	26960513
Add: Adjustment related to Previous Years			19948251
Add: Assets disposed off during the year		(1727025)	(4778209)
Less:- Adjustment in Building as per audit observation		-----	(1198795)
Add: Excess of Income over expenditure/(Excess of Expenditure Over income) transferred from the Income & Expenditure		(595575512)	(4603845007)
Balance at the year end	(23961121933)	(23883612378)	

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 2 - DESIGNATED/EARMARKED/ENDOWMENT FUNDS

Particulars	Funds wise breakup			Total	
	Misc. A/c	Endowment Funds	Other Earmarked	Current Year	Previous Year
A.					
a) Opening balance	1319085678	1128516578	9551943023	11999545279	15991877962
Less:-Account transfer to Current Liabilities	-	-	(367494147)	(367494147)	
Opening balance of Plan A/c	-	-			(4747144861)
b) Additions during the year					
(i) Income from investments made of the funds	48914927	48498056	421933382	519346365	343870376
(ii) Accrued Interest on Investments/Advances	44516818	348092268	264361857	656970943	291924475
(iii) Interest on Savings Bank a/c	70334	947102	3271606	4289042	5942865
(iv) Other additions (specify nature)	104765957	18562657	852584381	975912995	874047575
Total(A)	1517353714	1544616661	10726600102	13788570477	12760518392
B.					
Utilization/Expenditure towards objectives of funds					
ii) Capital Expenditure	8204266	2674871	159981584	170860721	125969947
ii) Revenue Expenditure	169661392	327793178	429255157	926709727	635003166
Total(B)	177865658	330468049	589236741	1097570448	760973113
Closing balance at the year end (A-B)	1339488056	1214148612	10137363361	12691000029	11999545279
Represented by					
Cash And Bank Balances					
Saving Accounts	52585123	36879791	211891708	301356622	149870446
Investments	-----	-----	-----	0	635100000
Fixed Deposit	1216280095	1136772167	9392159862	11745212124	10733606922
Interest accrued but not due	44516818	35225536	264847525	344589879	292191881
Shares	-----	-----	3000000	3000000	3000000
Other Loan & Advances	393528	-----	148500701	148894229	54277945
Electricity Deposits	-----	-----	9409500	9409500	9409500
TDS's refundable	10712492	5271118	107554065	123537675	102088585
Amount Receivable from Capital Assets	15000000	-----	-----	15000000	-----
Loan to Institute of Eminence(IOE)	-----	-----	-----	0	20000000
Total	1339488056	1214148612	10137363361	12691000029	11999545279

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 2A - ENDOWMENT FUNDS

Amount in ₹											
1. Sr. No.	2. Name of the Endowment	Opening Balance		Additions during the Year		Total		9 Expenditure on the object during the year	Closing Balance		Total (10+11)
		3. Endowment	4. Accumulated Interest	5. Endowment (Misc.Receipts)	6. Interest	7. Endowment (3+5)	8. Accumulated Interest (4+6)		10. Endowment	11. Accumulated Interest	
1	Sir Shankar Lal Instt. Of Music	2560144	800169	0	129917	2560144	930086	0	2560144	930086	3490230
2	Shri Sri Ram Chair in Physics	8075484	4673489	0	434056	8075484	5107545	0	8075484	5107545	13183029
3	Shri Shankar Lal Chair in Chemistry	8942830	4192609	0	371525	8942830	4564134	0	8942830	4564134	13506964
4	IFC Chair in Faculty of Mgmt. studies	16159640	9321711	0	649111	16159640	9970822	0	16159640	9970822	26130462
5	SP Jain Advanced Mgmt. Research	2179569	1185223	0	90849	2179569	1276072	0	2179569	1276072	3455641
6	Pt. Man Mohan Nath Dhar	1422014	826838	0	90694	1422014	917532	0	1422014	917532	2339546
7	Professorship in Economics	14723096	8752443	0	970926	14723096	9723369	0	14723096	9723369	24446465
8	Publication of Orient Insect	622573	341162	0	79630	622573	420792	0	622573	420792	1043365
9	DU Endowment Fund	271855784	79031756	16771812	983626	288627596	80015382	2674871	288627596	77340511	365968107
10	Pt. Man Mohan Krishan Kaul	1691856	1005344	0	72824	1691856	1078168	0	1691856	1078168	2770024
11	Book Grant RTL	311091980	112654374	20062293	11374875	331154273	124029249	11970414	331154273	112058835	443213108
12	DU Amway Professorship in Enter. Dev.	13004520	6988398	0	586881	13004520	7575279	0	13004520	7575279	20579799
13	Cluster Innovation Centre Corpus Fund	115472131	69637406	8246678	6234527	123718809	75871933	0	123718809	75871933	199590742
14	MHRD IPR CHAIR	488	7583	0	218	488	7801	0	488	7801	8289
15	State Bank of India Scholarship (Advance RPA Scholarship) (46397)	2779255	562090	185500	30050	2964755	592140	15722	2964755	576418	3541173
16	DU Corpus Fund (94542)	100000	3471	0	2828	100000	6299	0	100000	6299	106299
17	Donation A/c (300433)	52944806	4906345	1749517	34115014	54694323	39021359	2940310	54694323	36081049	90775372
		823626170	304890408	47015800	56217551	870641970	361107959	17601317	870641970	343506642	1214148612

Notes

- 1 The total of Columns 3 & 4 will appear as the opening balance in the column "Endowment Funds" in Schedule2, of Earmarked Funds forming part of the Balance Sheet.
- 2 The total of Col.9 should normally be less than the total of Col. 8, as only the interest is to be used for the expenditure on the object of the endowments. (except Endowments for Chairs)
- 3 There should not normally be a debit balance in the schedule. If in a rare case, there is a debit balance against any of the Endowment Funds, the debit balance should appear on the Assets side of the Balance Sheet as "Receivables", in Schedule-8 Loans, Advances & Deposits.

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS	Amount in ₹	
	Current year	Previous Year
A. CURRENT LIABILITIES		
1. Sundry Creditors		
a) For Goods	3848390	31568280
2. Deposit-others (including EMD, Security Deposit)	----	----
3. Statutory Liabilities (GPF,TDS,WC TAX,CPF,GIS,NPS)		
a) Deduction/Remittance	50043855	47185764
b) Duties & Taxes	46208102	42627409
4. Other Current Liabilities	----	----
a) Salaries	195972328	178467009
b) Unutilized Fund against Sponsored Projects	3158142680	1842961104
c) Unutilized Fund against Sponsored Fellowships & Scholarships	123202445	105994165
d) UGC Unutilized Grants appear in Schedule-10	1836450955	5246551256
e) Interest Refundable to UGC	3938440026	29456930
f) Amount refundable to UGC (CPF Contribution)	143119728	167090231
g) Other funds	659276359	625984718
h) Other liabilities	41397552	8036024
i) Contractor Security	28500510	----
j) Library Security and Caution Money	37361463	----
k) Dr. B.R. Ambedkar Research Centre-Unutilized Grant	155891895	----
Total (A)	10417856288	8325922890
B. Provisions		
1. Gratuity	1291152976	1322713538
2. Superannuation Pension	30374064169	29416399413
3. Accumulated Leave Encashment	1743520312	1825366796
4. Others (Specify)/Expenses Payable	238750796	178389379
Total (B)	33647488253	32742869126
Total (A+B)	44065344541	41068792016

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE - 3 (a) SPONSORED PROJECTS

							Amount in ₹	
1	2	3	4	5	6	7	8	9
Sr. No.	Name of the Project	Opening Balance		Receipts/Recoveries during the year	Total	Expenditure during the year	Closing Balance	
		Credit	Debit				Credit	Debit
1	Research Scheme A/c (298650)	597168970	0	113749876	710918846	135975310	574943536	0
2	IASE Scheme A/c (Educ) (295853)	807019	0	0	807019	649	806370	0
3	Research Scheme A/c (SDC)(546386)	820455759	0	207333233	1027788992	178281407	849507585	0
4	B.R.A. Project A/c (298264)	58583281	0	15835999	74419280	14810777	59608503	0
5	Young Research Scientist A/c (298593)	148725683	0	41182711	189908394	22401271	167507123	0
6	CEMDE\Bio-Diversity Park (DDA)	23290568	0	125551780	148842348	117004253	31838095	0
7	Institution of Eminence	192180067	0	2496901072	2689081139	1219073356	1470007783	0
8	Dr. Ambedkar Centre of Excellence Universityof Delhi	0	0	465877	465877	465877	0	0
9	University of Delhi TRI ECE SCHEME 15025 LC2RP010	1749757	0	0	1749757	1738122	11635	0
10	University of Delhi BRD Scheme PR23640 BOTRP001	0	0	459328	459328	459328	0	0
11	University of Delhi DSTITDD scheme	0	0	3491427	3491427	3491427	0	0
12	University of Delhi RnD Scheme RFBR394	0	0	2814302	2814302	2814302	0	0
13	University of Delhi REACHOUT Scheme95	0	0	9974518	9974518	9974518	0	0
14	University of Delhi STHICB CSRI 1 62G ANTRP009	0	0	10590270	10590270	10590270	0	0
15	University of Delhi SDC DBT	0	0	41127050	41127050	37215000	3912050	0
16	NMEICT SAMARTH PROJECT UDSC ACCOUNT	0	0	35503395	35503395	35503395	0	0
17	UDSC STARS PROJECTS ACCOUNT	0	0	156816992	156816992	156816992	0	0
18	DST SCHEME	0	0	5003712	5003712	5003712	0	0
19	PMRF ACCOUNT	0	0	15899204	15899204	15899204	0	0
20	University of Delhi Nidi Scheme	0	0	3597172	3597172	3597172	0	0
21	BIOTECHNOLOGY RESEARCH AND DEVELOPMENT (ACBR)	0	0	5921140	5921140	5921140	0	0
22	SCIENCE AND TECHNOLOGY INTT. AND HUMAN CAPACITY BUILDING (ACBR)	0	0	2170402	2170402	2170402	0	0
23	INNOVATION TECHNOLOGY DEVELOPMENT AND DEPLOMENT(ACBR)	0	0	270818	270818	270818	0	0
Total		1842961104	0	3294660278	5137621382	1979478702	3158142680	0
Previous Year (2022-23)		2620210419	0	1278821849	3899032268	2057738044	1842961104	0

1. The Projects may be listed agency-wise, with sub-totals for each agency.

2. The total of Col. (credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).

3. The total of Col. 9 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 3(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

Amount in ₹

Sr. No	Name of Sponsor	Opening Balance As on 01.04.23		Transactions During the year		Closing Balance As On 31.03.24	
		3 CR.	4 DR.	5 CR.	6 DR.	7 CR.	8 DR.
1	CSIR Fellowship (298413)	52255347	0	3623935	518719	55360563	0
2	UGC Fellowship (298560)	14120394	0	4451323	3384083	15187634	0
3	Other Bodies Scholarship (298707)	33813519	0	34032631	22468618	45377532	0
4	CSIR Fellowship (SDC) (545269)	1010896	0	172192	99774	1083314	0
5	UGC Fellowship (SDC) (545258)	4794009	0	331390	749	5124650	0
6	CSIR Fellowship (112290)	0	0	1089284	20532	1068752	0
Total		105994165	0	43700755	26492475	123202445	0
Previous Year (2022-23)		109382375	0	30884669	34272879	105994165	0

Note:

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 3 (c) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

	Current Year	Amount in ₹ Previous Year
A. Grants from UGC for Specific Scheme		
Balance B/F	16439332	18175003
Unspent Balance Previous year for SAP and other Grants	-----	27958727
Add: Receipts during the year	49135933	22123716
Total(a)	65575265	68257446
Less: T/f to Earmarked Fund	-----	1666880
Less: Refunds	16439332	11476389
Less: Utilized for Revenue Expenditure	54365332	27572441
Less: Utilized for Capital Expenditure	-----	11102404
Total (b)	70804664	51818114
Unutilized carried forward (a-b)	(5229399)	16439332
B. Grants from UGC for Capital Assets		
Balance B/F	154923786	229035115
Add: Receipts during the year	100000000	85000000
Total (c)	254923786	314035115
Less: Utilized in Previous Year Now Transferred to Capital Fund	----	20218199
Less: Refunds	----	----
Less: Grant released to Hostels for Capital Expenditure	1373252	3359043
Less: Utilized for Capital Expenditure	116570085	135534087
Total (d)	117943337	159111329
Unutilized carried forward (c-d)	136980449	154923786
C. Grants from UGC for OBC/Execellence/Plan		
Balance B/F	4928035399	4719186134
Interest amount transferred to Schedule-3 Current Liabilities as per audit observation	(3535526399)	----
Add: Receipts during the year	6513446	264698390
Total (e)	1399022446	4983884524
Less: Refunds	-----	-----
Less: Utilized for Revenue Expenditure	-----	2417738
Less: Utilized for Capital Expenditure	-----	53431387
Total (f)	0	55849125
Unutilized carried forward (e-f)	1399022446	4928035399

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

	Amount in ₹	
	Current Year	Previous Year
D. Grants from EWS		
Balance B/F	147152739	160860690
Add: Receipts during the year	78800000	250000000
Total (g)	225952739	410860690
Less: Refunds	----	----
Less: Advance paid to CPWD for Deposit work	35000000	250000000
Less: Utilized for Revenue Expenditure	2426797	13707951
Less: Utilized for Capital Expenditure	43800000	----
Total (h)	81226797	263707951
Unutilized carried forward (g-h)	144725942	147152739
E. UGC Grants to Colleges for CPF to GPF		
Balance B/F	----	----
Opening Balance	----	----
Add: Receipts during the year	1690212724	----
Total (i)	1690212724	0
Less: Utilized for Revenue Expenditure	----	----
Less: Utilized for Capital Expenditure	1570457845	----
Total (j)	1570457845	0
Unutilized carried forward (i-j)	119754879	0
F. UGC Grants for Salary and Recurring		
Balance B/F	0	----
Add: Receipts during the year	7683900000	7614081627
Total (k)	7683900000	7614081627
Less: Utilized for Revenue Expenditure	7647932761	7614081627
Less: Utilized for Capital Expenditure	----	----
Total (l)	7647932761	7614081627
Unutilized carried forward (k-l)	35967239	0
Grand Total(A+B+C+D+E+F)	1831221556	5246551256

Notes:-

Unutilized grants includes advances on Capital Account

Unutilized grants are represented on the Assets side by Bank balances, Short term Deposits with Banks and Advances on Capital Account

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 4 Fixed Assets

Gross Block															Amount in ₹	
Depreciation for the year 31.03.2024															Net Block	
S.No.	Assets Heads	Rate of Depreciation	Opening Balance 01.04.2023	Prior Period Addition (Project Closed)	Additions	Deductions	Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Prior Period Dep. Addition (Project Closed)	Depreciation for the year	Deductions	Prior Period Adjustments	Total Depreciation	31.03.2024	31.03.2023
1	Land	0%	19716892	0	0	0	0	19716892	0	0	0	0	0	0	19716892	19716892
2	Site Development/Minor work	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Buildings	2%	6793994606	0	104588321	0	0	6898582927	612713897	0	116128434	0	13026306	741868636	6156714291	6181280709
4	Roads & Bridges	2%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Tubewells & Water Supply	2%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Electrical Installation and equipment	5%	38447204	33216	2562179	0	0	41042599	11222373	33216	2072903	0	0	13328492	27714107	27224831
8	Plant & Machinery	5%	689403227	71883	1137622	1906908	167894	688873718	215320289	71883	34785646	1532571	33580	248678827	440194891	474082939
9	Scientific & Laboratory Equipment	8%	869925293	27060514	74878053	31777753	655535	940741642	441163908	27060514	75062133	31572341	814276	512528491	428213151	428761384
10	Office Equipment	7.50%	149085584	1191542	44057562	11805231	-46834000	135695457	26104731	1191542	14109084	10803084	-3512550	27089723	108605734	122980853
11	Audio Visual Equipment	7.50%	6628753	0	518521	6599	0	7140675	2226687	0	536969	6551	0	2757105	4383570	4402066
12	Computers & Peripherals	20%	1968810693	1447093	56376931	22292923	46979439	2051321233	1871133799	1447093	53656803	22278148	9483152	1913442700	137878533	97676893
13	Furniture, Fixtures & Fittings	7.50%	278623825	445377	58845912	1985237	-968868	334961009	145653805	445377	24880312	1854970	-290660	168833865	166127144	132970020
14	Sports Equipment	10%	215434	0	0	0	0	215434	192415	0	21541	0	0	213956	1478	23019
15	Vehicles	10%	7028093	0	4287172	6691936	5230640	9853969	2850537	0	930569	6691912	5230640	2319833	7534136	4177556
16	Lib. Books & Scientific Journals	10%	288092509	61812	21367273	150	0	309521444	184628691	61812	30946837	135	0	215637205	93884240	103463818
17	Small Value Assets	0%	289985	0	0	0	0	289985	21749	0	21749	0	0	43498	246487	268236
18	Work of Art	7.50%	3310000	0	0	0	0	3310000	496500	0	248250	0	0	744750	2565250	2813500
Total (A)			11113572098	30311437	368619546	76466737	5230640	11441266984	3513729381	30311437	353401229	74739712	24784744	3847487079	7593779903	7599842715
19	Capital Work in Progress (B)		34675556		452277768	0		486953324	0	0	0	0		0	486953324	34675556
S.No.	Intangible Assets		Opening Balance 01.04.2023	Prior Period Addition (Project Closed)	Additions	Deductions	Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Prior Period Dep. Addition (Project Closed)	Amortization for the year	Deductions/Adjustment/ Prior Period	Prior Period Adjustments	Total Amortization/ Adjustments	31.03.2024	31.03.2023
20	Computer Software	40%	39270970		309650	0	0	39580620	34193133		4941817	0	0	39134950	445670	5077837
21	E-Journals	40%	52293852		0	0	0	52293852	36017320		12368322	0	0	48385642	3908210	16276532
22	Patents	9 Years	84135		0	0	0	84135	58893		5840	0	0	64734	19401	25242
Total (C)			91648957	0	309650	0	0	91958607	70269346	0	17315980	0	0	87585326	4373281	21379611
Grand Total (A+B+C)			11239896611	30311437	821206964	76466737	5230640	12020178915	3583998727	30311437	370717209	74739712	24784744	3935072405	8085106509	7655897882
Previous year (2022-23)			10846214969	0	399787466	6105825	0	11239896611	3177988519		356437186	4778209	54351230	3583998727	7655897882	

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.

The figure in column 'Additions during the year under Gross Block against Assets 1 to 22 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 4A - PLAN

SCHEDULE 4A - PLAN														Amount in ₹	
			Gross Block					Depreciation for the year 31.03.2024					Net Block		
S.No.	Assets Heads	Rate of Depreciation	Opening Balance 01.04.2023	Additions	Deductions	Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Depreciation for the year	Deductions	Prior Period Adjustments	Total Depreciation	31.03.2024	31.03.2023	
1	Land	0%	0	0	0	0	0	0	0	0	0	0	0	0	
2	Site Development/Minor work	0%	0	0	0	0	0	0	0	0	0	0	0	0	
3	Buildings	2%	2902816739	85103857	0	0	2987920596	300099704	59758412	0	13026306	372884421	2615036175	2602717035	
4	Roads & Bridges	2%	0	0	0	0	0	0	0	0	0	0	0	0	
5	Tubewells &Water Supply	2%	0	0	0	0	0	0	0	0	0	0	0	0	
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0	0	0	0	0	0	
7	Electrical Installation and equipment	5%	0	0	0	0	0	0	0	0	0	0	0	0	
8	Plant & Machinery	5%	401553150	0	0	0	401553150	127623527	20077658	0	0	147701184	253851966	273929624	
9	Scientific & Laboratory Equipment	8%	423633667	1238975	0	0	424872642	268873562	33989811	0	604504	303467877	121404765	154760105	
10	Office Equipment	7.50%	65908	0	0	0	65908	59317	4943	0	0	64260	1648	6591	
11	Audio Visual Equipment	7.50%	1567898	0	0	0	1567898	830363	117592	0	0	947956	619942	737535	
12	Computers & Peripherals	20%	1712693264	0	0	0	1712693264	1699148212	7557827	0	0	1706706039	5987225	13545052	
13	Furniture, Fixtures & Fittings	7.50%	74664630	0	0	0	74664630	47078947	5599847	0	0	52678795	21985836	27585683	
14	Sports Equipment	10%	0	0	0	0	0	0	0	0	0	0	0	0	
15	Vehicles	10%	976781	0	0	0	976781	879103	97676	0	0	976779	2	97678	
16	Lib. Books & Scientific Journals	10%	31755129	32000	0	0	31787129	23003424	3178711	0	0	26182135	5604994	8751705	
17	Small Value Assets	0%	0	0	0	0	0	0	0	0	0	0	0	0	
18	Work of Art	7.50%	1310000	0	0	0	1310000	196500	98250	0	0	294750	1015250	1113500	
Total (A)			5551037166	86374832	0	0	5637411998	2467792659	130480727	0	13630810	2611904196	3025507802	3083244507	
19	Capital Work in Progress (B)		0	33069077	0	0	33069077	0	0	0	0	0	33069077	0	
S.No.	Intangible Assets		Opening Balance 01.04.2023	Additions	Deductions	Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Amortization for the year	Deductions/A djustment/Pri or Period	Prior Period Adjustments	Total Amortization /Adjustment s	31.03.2024	31.03.2023	
20	Computer Software	40%	0	0	0	0	0	0	0	0	0	0	0	0	
21	E-Journals	40%	0	0	0	0	0	0	0	0	0	0	0	0	
22	Patents	9 Years	19360	0	0	0	19360	15056	2151	0	0	17207	2153	4304	
Total (C)			19360	0	0	0	19360	15056	2151	0	0	17207	2153	4304	
Grand Total (A+B+C)			5551056526	119443909	0	0	5670500435	2467807714	130482878	0	13630810	2611921403	3058579032	3083248812	
Previous year (2022-23)			5497625139	53431387	0		5551056526	2285154100	130418317	0	52235297	2467807714	3083248812		

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
The figure in column 'Additions during the year under Gross Block against Assets 1 to 22 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

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UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

														Amount in ₹
SCHEDULE 4B(1)														
S.No	Assets Heads	Rate of Depreciation	Opening Balance 01.04.2023	Gross Block			Closing Balance 31.03.2024	Depreciation for the year 31.03.2024					Net Block	
				Additions	Deductions	Prior Period Adjustments		Depreciation Opening Balance	Depreciation for the year	Deductions	Prior Period Adjustments	Total Depreciation	31.03.2024	31.03.2023
1	Land	0%	19716892	0	0	0	19716892	0	0	0	0	0	19716892	19716892
2	Site Development/Minor work	0%	0	0	0	0	0	0	0	0	0	0	0	0
3	Buildings	2%	407708564	0	0	0	407708564	72654903	8154171	0	0	80809074	326899490	335053661
4	Roads & Bridges	2%	0	0	0	0	0	0	0	0	0	0	0	0
5	Tubewells & Water Supply	2%	0	0	0	0	0	0	0	0	0	0	0	0
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0	0	0	0	0	0
7	Electrical installation and equipment	5%	20173119	426950	0	0	20600069	8224261	1052437	0	0	9276698	11323371	11948858
8	Plant & Machinery	5%	94647323	0	1906908	167894	92908309	34340651	5405342	1532571	33580	38247002	54661307	60306672
9	Scientific & Laboratory Equipment	8%	91158667	5621823	31777753	655535	65658272	47845441	7808228	31572341	209772	24291100	41367172	43313226
10	Office Equipment	7.50%	36985237	476800	11805231	0	25656806	11714609	2433001	10803084	0	3344526	22312280	25270628
11	Audio Visual Equipment	7.50%	1554012	408021	6599	0	1955434	589683	148076	6551	0	731208	1224226	964329
12	Computers & Peripherals	20%	85222577	1853082	22292923	145439	64928175	80657719	5017005	22278148	116352	63512928	1415247	4564858
13	Furniture, Fixtures & Fittings	7.50%	121001833	688661	1985237	-968868	118736389	69760233	9186583	1854970	-290660	76801187	41935202	51241600
14	Sports Equipment	10%	214690	0	0	0	214690	191746	21469	0	0	213215	1475	22944
15	Vehicles	10%	1534502	16500	6691936	5230640	89706	1239641	221631	6691912	5230640	0	89706	294861
16	Lib. Books & Scientific Journals	10%	216800869	0	150	0	216800719	149998634	21680949	135	0	171679449	45121270	66802234
17	Small Value Assets	0%	0	0	0	0	0	0	0	0	0	0	0	0
18	Work of Art	7.50%	0	0	0	0	0	0	0	0	0	0	0	0
Total (A)			1096718284	9491837	76466737	5230640	1034974024	477217522	61128893	74739712	5299684	468906387	566067638	619500762
19	Capital Work in Progress (B)		0	13067530	0		13067530	0	0	0		0	13067530	0
S.No	Intangible Assets		Opening Balance 01.04.2023	Additions	Deductions	Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Amortization for the year	Deductions	Prior Period Adjustments	Total Amortization/Adjustments	31.03.2024	31.03.2023
20	Computer Software	40%	13816871	9930	0	0	13826801	13807302	10344	0	0	13817646	9155	9569
21	E-journals	40%	0	0	0	0	0	0	0	0	0	0	0	0
22	Patents	9 Years	31575	0	0	0	31575	31572	1	0	0	31573	2	3
Total (C)			13848446	9930	0	0	13858376	13838874	10345	0	0	13849219	9157	9572
Grand Total (A+B+C)			1110566730	22569297	76466737	5230640	1061899930	491056396	61139237	74739712	5299684	482755605	579144325	619510334
Previous year (2022-23)			1104908754	10436185	4778209	0	110566730	446394905	60177401	4778209	-10737702	491056396	619510334	

Note The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
The figure in column 'Additions' during the year under Gross Block against Assets 1 to 22 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 4B (2) - CAPITAL ASSETS

SCHEDULE 4B (2) - CAPITAL ASSETS													Amount in ₹	
S.N o.	Assets Heads	Rate of Depreciation	Opening Balance 01.04.2023	Gross Block			Depreciation for the year 31.03.2024					Net Block		
				Additions	Deductions	Prior Period Adjustment	Closing Balance 31.03.2024	Depreciation Opening Balance	Depreciation for the year	Deductions	Prior Period Adjustment	Total Depreciation	31.03.2024	31.03.2023
1	Land	0%	0	0	0	0	0	0	0		0	0	0	0
2	Site Development/Minor work	0%	0	0	0	0	0	0	0		0	0	0	0
3	Buildings	2%	30354542	434420	0	0	30788962	1103683	615779		0	1719462	29069500	29250859
4	Roads & Bridges	2%	0	0	0	0	0	0	0		0	0	0	0
5	Tubewells &Water Supply	2%	0	0	0	0	0	0	0		0	0	0	0
6	Sewerage & Drainage	2%	0	0	0	0	0	0	0		0	0	0	0
7	Electrical installation and equipment	5%	8565587	628947	0	0	9194534	928036	459727	0		1387763	7806771	7637551
8	Plant & Machinery	5%	41835016	1137618	0	0	42972634	6453294	2148632		0	8601926	34370708	35381722
9	Scientific & Laboratory Equipment	8%	98841803	32182488	0	0	131024291	23215112	10481943	0		33697055	97327236	75626691
10	Office Equipment	7.50%	55583947	39765882	0	0	95349829	8749305	7151237	0		15900542	79449287	46834642
11	Audio Visual Equipment	7.50%	2804726	110500	0	0	2915226	488890	218642	0		707532	2207694	2315836
12	Computers & Peripherals	20%	126682900	38132641	0	0	164815541	63473255	32963108	0		96436363	68379178	63209645
13	Furniture, Fixtures & Fittings	7.50%	33615111	26470058	0	0	60085169	4991072	4506388	0		9497460	50587709	28624039
14	Sports Equipment	10%	0	0	0	0	0	0	0	0		0	0	0
15	Vehicles	10%	4516810	1595801	0	0	6112611	731793	611261	0		1343054	4769557	3785017
16	Lib. Books & Scientific Journals	10%	27958238	19156009	0	0	47114247	5775097	4711425	0		10486522	36627725	22183141
17	Small Value Assets	0%	289985	0	0	0	289985	21749	21749	0		43498	246487	268236
18	Work of Art	7.50%	0	0	0	0	0	0	0	0		0	0	0
Total (A)			431048665	159614364	0	0	590663029	115931286	63889891	0	0	179821177	410841852	315117379
19 Capital Work in Progress (B)			34675556	314300685	0	0	348976241	0	0	0	0	0	348976241	34675556
S.N o.	Intangible Assets		Opening Balance 01.04.2023	Additions	Deductions	Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Amortization for the year	Deductions	Prior Period Adjustments	Total Amortization/ Adjustments	31.03.2024	31.03.2023
20	Computer Software	40%	976384	299720	0	0	1276104	868946	67470	0		936416	339688	107438
21	E-Journals / E-Books	40%	52293852	0	0	0	52293852	36017320	12368322	0	0	48385642	3908210	16276532
22	Patents	9 Years	24400	0	0	0	24400	5422	2711	0	0	8133	16267	18978
Total (C)			53294636	299720	0	0	53594356	36891688	12438503	0	0	49330191	4264165	16402948
Grand Total (A+B+C)			519018857	474214769	0	0	993233626	152822974	76328394	0	0	229151368	764082258	366195883
Previous year (2022-23)			347132569	171886288	0	0	519018857	87151635	65671339	0	0	152822974	366195883	

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
The figure in column 'Additions during the year under Gross Block against Assets 1 to 22 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

Capital Assets (EWS)	43344000
Work in Progress (EWS)	456000
Work in Progress	313844685
Capital Assets Purchased	116570084
Total	474214769

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 4 C - INTANGIBLE ASSETS

Amount in ₹

S.No.	Intangible Assets	Opening Balance 01.04.2023	Additions	Deductions	Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Amortization for the year	Deductions	Prior Period Adjustments	Total Amortization/ Adjustments	31.03.2024	31.03.2023
1	Computer Software	39270970	309650	0	0	39580620	34193133	4941817	0	0	39134950	445670	5077837
2	E-journals	52293852	0	0	0	52293852	36017320	12368322	0	0	48385642	3908210	16276532
3	Patents	84135	0	0	0	84135	58893	5840	0	0	64733	19402	25242
Total		91648957	309650	0	0	91958607	70269346	17315980	0	0	87585326	4373281	21379611
Previous year (2022-23)		71439229	20209728	0	0	91648957	41591204	28678142	0	0	70269346	21379611	

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

						Amount in ₹	
SCHEDULE 4(C) (I) PATENTS AND COPYRIGHTS						Net Block 20.....	Net Block 20.....
Op. Balance Addition Gross Amortization							
A. Patents Granted							
1. Balance as on 31.03.24 of Patents obtained in 2023-24 (Original Value - Rs.../-)	----	----	----	----	----	----	----
2. Balance as on 31.03.24 of Patents obtained in 2023-24 (Original Value - Rs.../-)	----	----	----	----	----	----	----
3. Balance as on 31.03.24 of Patents obtained in 2023-24 (Original Value - Rs.../-)	----	----	----	----	----	----	----
4. Patents granted during the Current Year	----	----	----	----	----	----	----
Total	----	----	----	----	----	----	----
Particulars						Net Block 20.....	Net Block 20.....
Op. Balance Addition Gross Patents Granted/Rejected							
A. Patents Pending in respect of Patents applied for							
1. Expenditure incurred during 20.....	----	----	----	----	----	----	----
1. Expenditure incurred during 20.....	----	----	----	----	----	----	----
1. Expenditure incurred during 20.....	----	----	----	----	----	----	----
Total	----	----	----	----	----	----	----
C. Grand Total (A+B)	----	----	----	----	----	----	----

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 4D Others															Amount in ₹	
S.No.	Assets Heads	Rate of Depreciation	Opening Balance 01.04.2023	Prior Period Addition (Project Closed)	Gross Block		Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Prior Period Dep. Addition (Project Closed)	Depreciation for the year 31.03.2024		Prior Period Adjustments	Total	Net Block	
					Additions	Deductions					Depreciation for the year	Deductions			31.03.2024	31.03.2023
1	Land	0%	0		0	0	0	0	0		0	0	0	0	0	0
2	Site Development/Minor work	0%	0		0	0	0	0	0		0	0	0	0	0	0
3	Buildings	2%	3453114761		19050044	0	0	3472164805	238855608		47600071	0	0	286455680	3185709125	3214259153
4	Roads & Bridges	2%	0		0	0	0	0	0		0	0	0	0	0	0
5	Tube wells & Water Supply	2%	0		0	0	0	0	0		0	0	0	0	0	0
6	Sewerage & Drainage	2%	0		0	0	0	0	0		0	0	0	0	0	0
7	Electrical installation and equipment	5%	9708498	33216	1506282	0	0	11247996	2070076	33216	560739	0	0	2664031	8583965	7638422
8	Plant & Machinery	5%	151367738	71883	4	0	0	151439625	46902817	71883	7154015	0	0	54128715	97310910	104464921
9	Scientific & Laboratory	8%	256291156	27060514	35834767	0	0	319186437	101229793	27060514	22782151	0	0	151072458	168113980	155061363
10	Office Equipment	7.50%	56450492	1191542	3814880	0	-46834000	14622914	5581500	1191542	4519903	0	-3512550	7780395	6842519	50868992
11	Audio Visual Equipment	7.50%	702117		0	0	0	702117	317750		52659	0	0	370409	331708	384367
12	Computers & Peripherals	20%	44211952	1447093	16391208	0	46834000	108884253	27854613	1447093	8118863	0	9366800	46787369	62096883	16357339
13	Furniture, Fixtures & Fittings	7.50%	49342251	445377	31687193	0	0	81474821	23823553	445377	5587494	0	0	29856424	51618397	25518698
14	Sports Equipment	10%	744		0	0	0	744	669		72	0	0	741	3	75
15	Vehicles	10%	0		2674871	0	0	2674871	0		0	0	0	0	2674871	0
16	Lib. Books & Scientific Journals	10%	11578274	61812	2179264	0	0	13819350	5851535	61812	1375752	0	0	7289099	6530250	5726738
17	Small Value Assets	0%	0		0	0	0	0	0		0	0	0	0	0	0
18	Work of Art	7.50%	2000000		0	0	0	2000000	300000		150000	0	0	450000	1550000	1700000
Total (A)			4034767982	30311437	113138513	0	0	4178217932	452787915	30311437	97901719	0	5854250	586855321	3591362612	3581980067
19	Capital Work In Progress (B)		0		91840476	0	0	91840476	0		0	0	0	0	91840476	0
S.No.	Intangible Assets		Opening Balance 01.04.2023	Prior Period Addition (Project Closed)	Additions	Deductions	Prior Period Adjustments	Closing Balance 31.03.2024	Depreciation Opening Balance	Prior Period Dep. Addition (Project Closed)	Amortization for the year	Deductions	Prior Period Adjustments	Total	31.03.2024	31.03.2023
20	Computer Software	40%	24477715		0	0	0	24477715	19516885		4864003	0	0	24380888	96827	4960830
21	E-Journals	40%	0		0	0	0	0	0		0	0	0	0	0	0
22	Patents	9 Years	8800		0	0	0	8800	6844		978	0	0	7821	979	1956
Total (C)			24486515	0	0	0	0	24486515	19523728	0	4864981	0	0	24388709	97806	4962787
Grand Total (A+B+C)			4059254497	30311437	204978989	0	0	4294544923	472311644	30311437	102766700	0	5854250	611244031	3683300893	3586942854
Previous year (2022-23)			3896548507		164033606	1327616	0	4059254497	359287881		100170129	0	12853634	472311644	3586942854	

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.

The figure in column 'Additions' during the year under Gross Block against Assets 1 to 22 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

Note: The additions during the year include additions from

Gifted (Books)	1647
Project Close (NC+SC)	34116621
Misc. Accounts Fund	8204266
LDF	733420
Other Earmarked Fund	159248164
Endowment	2674871
	204978989

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 5 - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS	Amount in ₹	
	Current Year	Previous Year
1. In Central Government Securities	-----	635100000
2. In State Government Securities	-----	-----
3. Other approved Securities	-----	-----
4. Shares	3000000	3000000
5. Debentures and Bonds	-----	-----
6. Term Deposits with Banks	-----	-----
7. Others (Earmarked Fund)	-----	-----
Total	3000000	638100000

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULES 5 (A) INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUNDS WISE)			Amount in ₹
S. No.	Funds	Current Year	Previous Year
1	Endowment Fund - Govt. Securities	-----	134200000
2	Other Earmarked Fund - Govt. Securities	-----	500900000
3	Endowment Fund - Shares (University of Delhi Foundation & Udhmodya Foundation)	3000000	3000000
Total		3000000	638100000

Note : The Total in this sub schedule will agree with the total in Schedule 5.

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

	Amount in ₹	
SCHEDULE 6 - INVESTMENT -OTHERS	Current Year	Previous Year
1. In Central Government Securities		
2. In State Government Securities	----	----
3. Other approved Securities	----	----
4. Shares	----	----
5. Debentures and Bonds	----	----
6. Other (to be specified)	----	----
TOTAL	----	----

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

		Amount in ₹
SCHEDULE 7 - CURRENT ASSETS	Current Year	Previous Year
1. Stock		
a) Stationery	18220051	12698055
b) Water supply material	-----	-----
c) Chemicals & Glassware	2682975	3317569
d) Drugs and Medicines	15617993	15346516
e) Answer Sheet	51256626	5017666
2. Sundry Debtors :		
a) Debtors outstanding for a period more than Six Months	5407331	
b) Others	1072798	9216846
3. Cash and Bank Balance		
a) With Scheduled Banks :		
-In Current Accounts	839498	26499075
-In Term Deposit Accounts	20670562443	18187179406
-In Savings Accounts	1347182951	1272820930
b) With non-Scheduled Banks :		
-In Term Deposit Accounts	-----	-----
-In Savings Accounts	-----	-----
c) Permanent Advance	929820	540000
4. Post Office Savings Accounts	-----	-----
TOTAL	22113772485	19532636063

Note : Annexure "A" shows the details of Bank Accounts/Term Deposits Accounts

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

Annexure "A"

		Amount in ₹	
		Current Year	Previous Year
I	Current Account		
1	B R Amedkar Centre General Fund A/c	33128	7
2	SDC Examination A/c	----	4276456
3	SDC General Fund A/c	----	21415593
4	Sponsored Project Bank A/c	806370	807019
TOTAL-I		839498	26499075
II	Savings Bank Accounts		
1	SBI Departmental Receipt A/c	1184976	1842607
2	SBI General Fund A/c	56231246	12018122
3	Sponsored Project Bank A/c	192651956	371217940
4	Sponsored Fellowship and Scholarship	67911808	56768457
5	Plan Savings A/c	9945773	11929271
6	Savings A/cs of Earmarked Fund	300171646	141548532
7	CPF Account refundable to UGC	101024902	9920736
8	IDBI Bank A/c (Misc Fee)	----	4444954
9	Online Fees collected from Students on ICICI Bank	19291437	149894035
10	Recurring A/c-(38010936321)	189307665	168543063
11	ICICI Bank A/c-(Exam)-004318	3464380	1640548
12	Capital Assets- (38010936467)	7798316	409875
13	Delhi University Facilities & Services Bank A/c	2388776	2598773
14	Delhi University Student Welfare Fund-Bank A/c.	328652	18246381
15	Salary Account-(38010911307)	374549448	315318329
16	ACBR (M.Sc Fee) Saving Account	2134995	2625878
17	SBI Maintainance A/C 1541 (SDC)	5178095	----
18	Salary Account 7086 (SDC)	2020863	----
19	Saving Bank Account ACBR (Plan)	648375	631126
20	Saving Bank Account (Library Security and Caution Money)	1089823	1865609
21	Saving Bank Account (Contractor Security)	9859821	1356694
TOTAL-II		1347182951	1272820930
III	Reserve Bank of India- TSA	TOTAL-III	----
IV	Term Deposit Accounts		
1	FDR from Earmarked Fund(including margin money)	11745212124	10385053831
2	FDR from UGC Refundable A/c	160000000	155275000
3	FDR from ACBR A/c	1305715	1305715
4	Sponsored Project Bank A/c(including margin money)	1686586037	1355991769
5	Sponsored Fellowship and Scholarship	50010000	45000000
6	FDR From Plan A/c (including margin money)	4877500000	4582500000
7	FDR From Capital Assets A/c	150000000	176000000
8	FDR From SBI General Fund Saving 50212	690000000	100000000
9	ICICI ONLINE FEE (FDRS)	570000000	480000000
10	FDR FROM DU FACILITY	----	57500000
11	FDR From Salary A/c 11307	493686253	500000000
12	FDR Frm Student Welfare Fund	49000000	----
13	Fixed Deposit (ACBR Plan)	147262314	140456338
14	Fixed Deposit (Library Security and Caution Money)	34000000	95607590
15	Fixed Deposit (Contractor Security)	16000000	112489163
TOTAL-IV		20670562443	18187179406
GRAND TOTAL (I+II+III+IV)		22018584892	19486499411

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

	Amount in ₹
	Previous Year
SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS	
1. Advances to employees (Non-interest bearing)	
a) Leave Travel Concession	1186455
2. Long Term Advances to employees (Interest bearing)	
a) Vehicle Loan/Conveyance/Computer	327500
b) Home Loan/HBA	7990820
3. Advances and other amounts recoverable in cash or in kind or for value to be received	
a) Other Advance out of Earmarked Funds	140575909
d) Other Advance out of Maintenance Grant A/c	
i) Advance for Examination	6204347
ii) Advance for Other Charges	27213123
iii) Advances for Capital Assets:	
Advance to C.P.W.D.	37479759
Advance to others	-----
e) Other Advances out of Sponsored Projects	1307907450
f) Advance to M/s Rites Ltd. for construction works and others	203922447
g) Others(TDS refundable)	200371877
4. Prepaid Expenses	
a) For General and Annual Maintenance Charges	33127221
5. Deposits	
a) Electricity	20805300
b) DESU (Security)	4795
c) Others	202373
6. Income Accrued:	
a) On Investments from Earmarked/Endowment Funds	344589879
b) On Investments from ACBR/ UGC Refundable A/c	97636
c) On Investments from UGC Refundable A/c	1681052
d) On Investments from Sponsored Projects	64113338
e) On Investments from Sponsored Fellowship and Scholarship	4045970
f) On Investments from Plan	173406212
g) On Investments from others fund	5184447
h) Interest Accrued (ACBR Plan)	6008391
i) Interest Accrued (Caution Money Library Security)	1123508
j) Interest Accrued (Contractor Security)	140148
7. Other - Current Assets receivable from UGC/sponsored projects	
a) Other receivables	404288
8. Claims Receivable	
a) Grant Receivable from UGC	5229399
TOTAL	2593343644
	1358090972

Note :

1. If revolving funds have been created for House Building, Computer and Vehicle advances to employees, the advances will appear as part of Earmarked/Endowment Funds. The balances against these interest-bearing advances will not appear in this schedule.

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

	Amount in ₹	
	Current Year	Previous Year
SCHEDULE - 9 ACADEMIC RECEIPTS		
FEES FROM STUDENTS		
Academic		
1. Tuition fee	55287418	41894188
2. Admission Fee	2011348	2526486
3. Enrolment fee	12303122	48847277
4. Library Admission fee	2023900	3293820
5. Laboratory fee	8540	42960
6. Sports and Athletic Association Fee	3598840	7264305
7. Registration fee	122237418	205264369
8. Delhi University Students Welfare Fund	83398316	18328750
9. Faculty/Deptt./Centre/Facilities & Services Charges	281395349	90645852
10. Faculty/Deptt./Centre/Colleges/Facilities & Services Charges	52642717	-----
11. Faculty/Deptt./Centre/Colleges Student Welfare Fund	13287744	-----
12. UG/PG ADMISSION CENCILATION FEE	16701000	65708000
13. Other Fees	32361662	34133098
Total (A)	677257374	517949105
Examinations		
1. Annual Examination Fee	1240097515	970846412
2. Marksheet, certificate fee	38230933	45943380
3. Entrance Examination Fee	98750	420676
Total (B)	1278427198	1017210468
Other Fees		
1. Identity card Fee	-----	-----
2. Fine/Miscellaneous Fee	-----	-----
3. Medical Fee	-----	-----
Total (C)	-----	-----
Sale of Publications		
Total (D)	-----	-----
Other Academic Receipts		
1. Registration fee for workshops, programmes	-----	-----
2. Registration fees (Academic Staff College)	-----	-----
Total (E)	-----	-----
GRAND TOTAL (A+B+C+D+E)	1955684572	1535159573

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 10- GRANTS/SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Particulars	University Grant Commission (UGC)							Amount in ₹	
	OBC/Excellence/Plan	FRP Grant	Others (SAP/FRP/CPDHE)	EWS (Capital/Recurring/ Salary)	Capital Assets	Grant to colleges for CPF to GPF	Recurring/Salary Grant	Current Year Total	Previous Year Total
Balance B/F	4928035399	-----	16439332	147152739	154923786	-----	-----	5246551256	408070808
Unspent Excellence/Plan Grant	-----	-----	-----	-----	-----	-----	-----	-----	4747144861
Interest amount transferred to Schedule-3 Current Liabilities as per audit observation	(3535526399)	-----	-----	-----	-----	-----	-----	(3535526399)	-----
Add: Receipts during the year	6513446	14344735	34791198	78800000	100000000	1690212724	7683900000	9608562103	8235903733
Total	1399022446	14344735	51230530	225952739	254923786	1690212724	7683900000	11319586960	13391119402
Less: T/f to Sponsored Project & Capital Fund	-----	-----	-----	-----	-----	-----	-----	-----	21885079
Less : Refund to UGC Balance	-----	-----	16439332	-----	-----	-----	-----	16439332	11476389
Less: Advance paid to CPWD for Deposit work	-----	-----	-----	35000000	-----	-----	-----	35000000	-----
Less : Utilized for Capital expenditure (A)	-----	-----	-----	43800000	116570085	-----	-----	160370085	450067878
Balance	1399022446	14344735	34791198	147152739	138353701	1690212724	7683900000	11107777543	12907690056
Less: utilized for Revenue Expenditure (B)	-----	16562740	37802592	2426797	-----	1570457845	7647932761	9275182735	7657779757
Less: Grant released to Hostels for Capital Expenditure	-----	-----	-----	-----	1373252	-----	-----	1373252	3359043
Total (B)	-----	16562740	37802592	2426797	1373252	1570457845	7647932761	9276555987	7661138800
Balance of Unutilized Grant C/F (C)	1399022446	(2218005)	(3011394)	144725942	136980449	119754879	35967239	1831221556	5246551256

Note: UGC has released a grant of Rs. 201.10 Crore for payment to Colleges towards disbursement of arrears of pension due to conversion from CPF to GPF. Out of said grant of Rs. 201.10 Crore, Rs. 32.07 Crore were adjusted to University towards Recurring Grant and Balance Grant of Rs. 169.02 Crore is shown separately.

A- Appears as addition to Capital Fund as well as additions to Fixed Assets during the year.

B- Appears as income in the Income & Expenditure Account.

C- (i) Appears under Current Liabilities in the Balance

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 11- INCOME FROM INVESTMENTS	Earmarked/Endowment Funds		Other Investments	
	Current Year	Previous Year	Current Year	Previous Year
1. Interest				
a. On Government Securities	----	----	----	----
b. Other Bonds/Debentures	----	----	----	----
2. Interest on Term Deposits	519346365	343870376	118570538	22273788
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees.	656970943	291924475	----	----
4. Interest on Saving Bank Accounts	4289042	8393639	----	----
5. Others (Specify)	----	----	----	----
Total	1180606350	644188490	118570538	22273788
Transferred to Earmarked/Endowment Funds	1180606350	644188490	----	----
Balance	Nil	Nil	----	----

Note: Interest accrued but not due on Term Deposits from HBA Fund, conveyance advance fund and Computer Advance fund and on interest bearing advances to employees will be included here (Item 3), only where Revolving funds (EMF) for such advances have been set up.

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

	Amount in ₹	
SCHEDULE 12 - INTEREST EARNED	Current Year	Previous Year
1. On Savings Accounts with scheduled banks	10720946	15944141
2. On Loans		
a. Employee/Staff	----	----
b. Others	----	----
3. On Debtors and Other Receivables	----	----
Total	10720946	15944141

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

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SCHEDULE 13 - OTHER INCOME

	Amount in ₹	
	Current Year	Previous Year
A. Income from Land & Building		
1. Rent from Building/Land etc.	7884991	10323870
2. License fee recovered from employees for Home Accommodation	27229587	17937515
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc.	----	----
4. Electricity charges recovered	----	----
5. Water charges recovered	----	----
Total (A)	35114578	28261385
B. Sale of Institute's publications	----	----
C. Income from holding events		
1. Gross Receipts from annual function/sports carnival	----	----
Less : Direct expenditure incurred on the annual function/sports carnival		
2. Gross Receipts from fest	----	----
Less : Direct expenditure incurred on the fest		
3. Gross Receipts for educational tours	----	----
Less : Direct expenditure incurred on the tours		
4. Others (to be specified and separately disclosed)	----	----
Total (C)	----	----
D. Others		
1. RTI fee	16336	11664
2. Misc. receipts (Sale of tender form, waste paper, etc.)	1143232	1916437
3. Profit on Sale/disposal of Assets		
a) Owned assets	5198093	10233894
b) Assets received free of cost	----	----
4. Health Centre Contribution	57805255	63503459
5. Others (Specify)	14524993	1870726
Total (D)	78687909	77536180
GRAND TOTAL (A+B+C+D)	113802487	105797565

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 14- PRIOR PERIOD INCOME

Particulars	Amount in ₹	
	Current Year	Previous Year
1. Academic Receipts	63102209	10000000
2. Interest Earned on Contractor Security Account	98092047	-----
3. Interest earned	-----	-----
4. Other Income	10856475	33015515
Total	172050731	43015515

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE - 15 STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

Amount in ₹

Particulars	UGC/Other Schemes	Current Year		UGC/Other Schemes	Previous Year	
		UGC Salary	Total		UGC Salary	Total
a) Salaries and Wages						
Teaching staff	3981843	2588795928	2592777771	16125712	2326312581	2342438293
Non-Teaching staff	13228569	918495581	931724150	6067871	938724615	944792486
b) Retirement and Terminal Benefits	----	3428623180	3428623180	24656	6796731208	6796755864
c) LTC facility	72125	25583532	25655657	-----	25262914	25262914
d) Medical facility	1124612	308571365	309695977	48246	257892973	257941219
e) Children Education Allowance	81000	16841250	16922250	54000	17639850	17693850
f) Honorarium	212480	5007813	5220293	-----	8588062	8588062
Total	18700629	7291918649	7310619278	22320485	10371152203	10393472688

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFIT

	Amount in ₹				
	Pension	Gratuity	Leave Encashment	Total	Previous year
a) Opening Balance as on 01.04.23	29416399413	1322713538	1825366796	32564479747	28517814197
Addition : Capitalized value of Contributions Received from other Organizations	13996789	7253832	3154973	24405594	14481702
Total (a)	29430396202	1329967370	1828521769	32588885341	28532295899
b) Less: Actual Payment during the Year	2245713758	204257510	158499796	2608471064	2764397360
c = (a-b) Balance Available on 31.03.24	27184682444	1125709860	1670021973	29980414277	25767898539
d) Provision required on 31.03.24 as per Actuarial Valuation	30374064169	1291152976	1743520312	33408737457	32564479747
A. Provision to be made in the Current year (d-c)	3189381725	165443116	73498339	3428323180	6796581208
B. Contribution to New Pension Scheme	-----	-----	-----	-----	-----
C. Medical Reimbursement to Retired Employees	-----	-----	-----	-----	-----
D. Travel to Hometown Retirement	-----	-----	-----	-----	-----
E. Deposit Linked Insurance Payment	-----	-----	-----	300000	150000
TOTAL (A+B+C+D+E)	3189381725	165443116	73498339	3428623180	6796731208

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

Amount in ₹						
SCHEDULE 16 - ACADEMIC EXPENSES	Current Year			Previous Year		
	UGC/Other Schemes	UGC Recurring	Total	UGC/Other Schemes	UGC Recurring	Total
a) Chemicals & Glassware	----	17410260	17410260	171004	17084869	17255873
b) Repair & Maintenance of Laboratory Equipments	----	1084287	1084287	----	372409	372409
c) Seminars/Workshops/Conference Expenses	3146929	8694112	11841041	----	1650724	1650724
d) Award and Scholarships	----	79163055	79163055	----	89107507	89107507
e) Examination	----	531801084	531801084	----	369598047	369598047
f) Annual Membership Expenses	----	5704180	5704180	----	----	----
g) Admission Expenses	----	14033759	14033759	----	5387086	5387086
h) Publications	----	1017303	1017303	----	643716	643716
i) Magazines & Journals	----	40648604	40648604	----	73842348	73842348
j) Salary of Teaching Staff (Adhoc/Guest Faculty)	----	204228083	204228083	----	358887243	358887243
k) Laptop Grants/Subsidies to Students	----	15199032	15199032	----	----	----
TOTAL	3146929	918983759	922130688	171004	916573949	916744953

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

							Amount in ₹
SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES	UGC/Other Schemes	Current Year		UGC/Other Schemes	Previous Year		
		UGC Recurring	Total		UGC Recurring	Total	
A Infrastructure							
a) Electricity and Power	----	241586244	241586244	----	290127339	290127339	
b) Water charges	----	12291834	12291834	----	12088127	12088127	
c) Rent, Rates and Taxes (including property tax)	----	57474157	57474157	----	63359421	63359421	
B) Communication							
d) Postage and Telephone	----	4380455	4380455	----	3658468	3658468	
e) Connectivity Expenses	----	35855852	35855852	----	36707678	36707678	
C) Others							
f) Printing and Stationery (consumption)	----	17505102	17505102	34754	20520539	20555293	
g) Legal & Professional Charges	----	10916120	10916120	----	20006983	20006983	
h) Advertisement and Publicity	----	----	----	----	----	----	
i) Watch & Ward Expenses	----	185716511	185716511	----	166834619	166834619	
j) House Keeping Expenses	----	143769381	143769381	----	115686882	115686882	
k) Games & Sports	----	9157155	9157155	----	8025380	8025380	
l) Medical Expenses	----	50127696	50127696	----	59303832	59303832	
m) Others/Contingency	4022669	60509267	64531936	4432599	65989003	70421602	
D) Contractual/Adhoc Staff Salaries							
n) Non-Teaching Staff	----	376482159	376482159	----	357705754	357705754	
o) Contribution to Provident Fund (CPF)	----	2618789	2618789	----	3605734	3605734	
p) Contribution to New Pension Scheme	937625	220641749	221579374	469023	200370633	200839656	
TOTAL	4960294	1429032471	1433992765	4936376	1423990392	1428926768	

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

		Current Year		Previous Year		Amount in ₹
SCHEDULE - 18 TRANSPORTATION EXPENSES	UGC/Other Schemes	UGC Recurring	Total	UGC/Other Schemes	UGC Recurring	Total
1 Vehicles (owned by institution)						
a) Running expenses	----	1457296	1457296	----	1275102	1275102
b) Repairs & maintenance	----	454920	454920	----	818905	818905
c) Insurance expenses	----	140992	140992	----	90853	90853
2 Vehicles taken on rent/lease	----	----	----	----	----	----
a) Rent/lease expenses	----	----	----	----	----	----
3 Vehicle (Taxi) hiring expenses	----	4230283	4230283	----	1527617	1527617
4 Travelling & Transportation Expenses	----	9567280	9567280	----	9837426	9837426
Total	----	15850771	15850771	----	13549903	13549903

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

Amount in ₹						
SCHEDULE - 19 REPAIRS & MAINTENANCE	Current Year			Previous Year		
	UGC/Other Schemes	UGC Recurring	Total	UGC/Other Schemes	UGC Recurring	Total
a) Buildings	----	185570743	185570743	----	317737091	317737091
b) Furniture & Fixtures	----	4406082	4406082	----	8005406	8005406
c) Plant & Machinery	----	1766950	1766950	6325	9336424	9342749
d) Office Equipment	----	15174514	15174514	11800	2682778	2694578
e) Computers	----	4049996	4049996	----	5031552	5031552
f) Gardening	----	12475817	12475817	----	3281665	3281665
Total	0	223444102	223444102	18125	346074916	346093041

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

Amount in ₹						
SCHEDULE - 20 FINANCE COSTS	UGC/Other Schemes	Current Year		UGC/Other Schemes	Previous Year	
		UGC Recurring	Total		UGC Recurring	Total
a) Bank charges	-----	41942	41942	26473	56620	83093
b) Others (specify)	-----	-----	-----	-----	-----	-----
Total	0	41942	41942	26473	56620	83093

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

	Current Year			Previous Year		
SCHEDULE - 21 Expenditure on Grants, Subsidies etc.	UGC/Other Schemes	UGC Recurring	Total	UGC/Other Schemes	UGC Recurring	Total
a) Provision for Bad and Doubtful Debts/Advances	-----	-----	-----	-----	-----	-----
b) Irrecoverable Balances Written- off	-----	-----	-----	-----	-----	-----
c) Grants/Subsidies to Halls & Hostels /Other organizations	-----	142548181	142548181	-----	169301972	169301972
d) Grant to Colleges for arrears of pension on conversion from CPF to GPF	-----	1570457845	1570457845	-----	-----	-----
e) Others (specify)	-----	-----	-----	-----	-----	-----
Total	-----	1713006026	1713006026	-----	169301972	169301972

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

SCHEDULE 22: PRIOR PERIOD EXPENSES

Amount in ₹

Particulars	UGC/Other Schemes	Current Year		UGC/Other Schemes	Previous Year	
		UGC Recurring	Total		UGC Recurring	Total
1 Establishment expenses	618303	3220937	3839240	----	----	----
2 Academic expenses	----	80100517	80100517	----	279289534	279289534
3 Administrative expenses	----	28104490	28104490	----	----	----
4 Hon. To Non-Teaching (NCWEB)	----	61926850	61926850	----	4284755	4284755
5 Repairs & Maintenance	----	110960630	110960630	2517716	5233341	7751057
6 Travelling Expenses	----	70000	70000	----	----	----
7.Depreciation related to prior period	----	19554104	19554104	----	81482203	81482203
Total	618303	303937528	304555831	2517716	370289833	372807549

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UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2024

Increase/Decrease in Stock	Amount in ₹	
	Current year	Previous year
A) Closing Stock		
Stationery	18220051	12698055
Drugs and Medicines	15617993	15346516
Chemicals & Glassware	2682975	3317569
Answer Sheet	51256626	5017666
Total (A)	87777645	36379806
B) Less :Opening Stock	36379806	26137041
Total (B)	36379806	26137041
Net Increase/(Decrease) (A-B)	51397839	10242765



University of Delhi

SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2024

SCHEDULE: 23 SIGNIFICANT ACCOUNTING POLICIES

1 BASIS FOR PREPARATION OF ACCOUNTS:

- a. The financial statements are prepared on the basis of the Historical Cost Convention and generally on the Accrual Method of accounting unless otherwise stated.

2 REVENUE RECOGNITION:

- 2.1 Fees from Students and Interest on Savings Bank Accounts are accounted for on a cash basis.
- 2.2 Income from Land, Buildings and other Property and Interest on Investments are accounted for on an accrual basis.
- 2.3 Interest on Interest Bearing Advances to staff for House Building and Computers are accounted for on an accrual basis every year, though the actual recovery of interest starts after the full repayment of the principal amount.

3 FIXED ASSETS AND DEPRECIATION:

- 3.1 Fixed assets are valued at cost of acquisition including inward freight, duties, taxes, incidental direct expenses related to acquisition, installation and commissioning less depreciation. Fixed assets received by the University without any consideration are capitalized in the financial statement at a nominal value i.e. at Re. 1 (one) per asset.
- 3.2 Gifted / Donated Assets are valued at a nominal value at Re.1/- (one) per asset.
- 3.3 Books received as gifts are valued at a nominal value at Re.1/- (one) per asset.
- 3.4 The University has adopted Straight Line method of depreciation from the Financial Year 2020-21. Depreciation on Fixed Assets is provided on Straight line method at the following rates: -



University of Delhi

Tangible Assets:

<u>S.No.</u>	<u>Type of Assets</u>	<u>Rate as Per S.L.M.</u>
1	Land	0%
2	Site Development	0%
3	Buildings	2%
4	Roads & Bridges	2%
5	Tube wells & Water Supply	2%
6	Sewerage & Drainage	2%
7	Electrical Installation and equipment	5%
8	Plant & Machinery	5%
9	Scientific & Laboratory Equipment	8%
10	Office Equipment	7.5%
11	Audio Visual Equipment	7.5%
12	Computers & Peripherals	20%
13	Furniture, Fixtures & Fittings	7.5%
14	Sports Equipment	10%
15	Vehicles	10%
16	Library Books & Scientific Journals	10%
17	Work of Art	7.5%

Intangible Assets (amortization):

1	E-Journals (Perpetual)	40%
2	Computer Software	40%
3	Patents and Copyrights	9 Years



University of Delhi

- 3.5 In respect of additions to fixed assets during the year, depreciation is provided for the full year. In respect of sales/deductions from fixed assets, no depreciation is charged. The asset which has been disposed off has been shown as a deduction during the year. Against the outstanding advances, the assets which has been acquired in the previous financial year its depreciation has been taken as prior period depreciation. After the settlement of advances, the expenditure of the previous financial year has also been taken as prior period expenditure.
- 3.6 Assets created out of Earmarked Funds, where the ownership of such assets vest in the university, are set up by credit to Capital Fund and merged with the Fixed Assets of the University. Depreciation is charged at the rates applicable to respective assets as prescribed in the revised format of Ministry of Education (MOE). Assets purchased out of Projects funded by outside agencies remain the property of the concerned funding agency till the project is closed. After closure of the project, the project assets are merged with the Fixed Assets of the University after charging depreciation at the rates applicable to the respective assets by debiting respective Fixed Assets account and crediting Capital Fund Account.
- 3.7 Assets, the individual value of each of which is Rs. 2,000 or less (except Library Books), are treated as Small Value Assets and 100% depreciation is provided in the year in which these are purchased. However physical accounting and controls are continued by the holders of such assets.
- 3.8 The University is 102 years old and the Land has been acquired during that period, whether it is freehold or leasehold, the documents could not be traceable, so it cannot be bifurcated into freehold and leasehold. Therefore, no depreciation will be charged on the value of land.

4 Intangible Assets:

Patents and Copyrights, E-Journals and Computer Software are grouped under intangible Assets.

- 4.1 **Patents:** The expenditure incurred from time to time (application fees, legal expenses etc.) for obtaining Patent is capitalized and shown as part of Intangible assets in the Balance Sheet. If applications for Patents are rejected, the cumulative expenditure incurred on the particular Patent is written off to the Income & Expenditure in the year of application is rejected.

The expenditure on Patents granted is written off over a life of 9 years on a conservative basis.

4.2 Electronic Journals

- (a) **Perpetual:** -Electronic Journal (E-Journals) are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge acquired by the academic and research staff, Depreciation is provided in respect of E-Journals at a higher rate of 40% as against depreciation of 10% provided in respect of Library Books.



University of Delhi

(b) **Non-perpetual:** The amount spent on E- Journals/ periodicals are treated as revenue expenditure to the extent of the benefits utilized in the current year and rest of the amount is accounted for in books of account on accrual basis as prepaid expenses

4.3 Expenditure on acquisition of software has been separated from Computers and Peripherals, as apart from being intangible assets, the rate of obsolescence in respect of software is very high. Depreciation in respect of software is being charged @ 40% on Straight Line Method as against the Depreciation of 20% provided in respect of Computers & Peripherals.

5 Stocks:

The stocks at the end of the year are valued at cost.

6 Retirement Benefits:

Retirements Benefits i.e., Pension, Gratuity and Leave Encashment are provided on the basis of actuarial valuation as per Accounting Standard -15. Capitalized value of Pension, Gratuity and Earned Leave received from previous employers of universities employees, who have been absorbed in the university is credited to the respective Provision Accounts. Pension and leave salary contribution received in respect of employees on deputation is also credited to the respective Provision accounts.

7 Investments:

Keeping in view the requirements of funds the surplus funds are kept as fixed deposit in bank accounts from time to time. Other investments which are made in earlier previous years have been incorporated at their cost/face value.

8 Earmarked/ Endowment Funds:

The Earmarked Fund consisting of Housing Building Fund, Conveyance Fund, Library Development Fund (including Computer Advances and other such funds) are long-term funds and earmarked for specific purposes. Each of the Funds has a separate bank account. Those with large balances also have investments in Term Deposits with Banks. The income from investment/ advances (House Building, Conveyance, Computers, Library Development Fund) is accounted on accrual basis, and interest on savings bank accounts are credited to the respective fund on cash basis. The expenditure and advances (in the case of Housing Building& Conveyance/Computers, Library Development Fund) are debited to the respective funds.

8.1 The balance of respective funds is carried forward on the liability side of the Balance Sheet and is represented by Bank Balance, Advances, Fixed Deposit and Investments on the asset side of the Balance Sheet.



University of Delhi

8.2 Assets purchased/created out of Earmarked Funds where the ownership of the assets vests in the University, are merged with the Fixed Assets of the University by debiting respective fixed asset account and crediting Capital Fund account. Depreciation is charged at the rates applicable to the respective assets.

8.3 **Endowment Funds:** Endowment Funds are received from various individual donors, Trust and other Organization, for establishing Chairs and for Medals, Prizes and scholarships, as specified by the donors.

The Income from investment of each Endowment Fund is added to the Fund. The expenditure on Medals & Prizes is met from the interest earned on investment of the respective Endowment Funds and the balance is carried forward to next year.

The balances are represented by Investment in Fixed Deposits and balance in Savings Bank Account common for all Endowments, and Accrued Interest on Investments.

9 Government and University Grants Commission Grants:

9.1 During the Financial Year 2023-24, total Grant of Rs.9,55,29,12,724/- has been assigned for University of Delhi (in TSA Account with Reserve Bank of India) comprising Recurring Grant of Rs. 3,18,65,00,000/-, Salary Grant of Rs. 4,49,74,00,000/- and Capital Grant of Rs. 10,00,00,000/- Capital Assets (EWS) Grant of Rs.7,88,00,000/- Grant to colleges for payment of Pension arrears conversion from CPF to GPF of Rs. 169,02,12,724.

9.2 To the extent, utilized towards capital expenditure grant from UGC are transferred to the Capital Fund.

9.3 UGC grants to the extent, utilized for meeting Revenue Expenditure are treated as income of the year in which they are realized.

9.4 Grants received by the University in Commercial Bank and remains unutilized is shown as liability in the Schedule-3 (Current Liabilities & Provisions) in the Balance Sheet.

9.5 Unutilized OBC Expansion Grant for University Departments (2008-18) amounting to Rs. 76.75 Crore and OBC Expansion Grant for NCWEB amounting to Rs. 0.7243 Crore along with interest, total amounting to Rs. 122.09 Crore has been Refunded to UGC in May 2024 as per direction received from UGC.



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10 Investments of Earmarked Fund and Interest Income Accrued on such Investments:

To the extent not immediately required for expenditure the amounts available against such funds are invested in fixed-term deposits with Banks, leaving the balance in Savings Bank Account.

Interest received, interest accrued and due and interest accrued but not due on such investment are added to the respective funds and not treated as income of the Institution.

11 Sponsored Projects:

11.1 In respect of ongoing sponsored Projects, the amounts received from sponsors are credited to the head 'Current Liabilities and Provisions- Current Liabilities – "Receipt against Sponsored Projects". As and when expenditure incurred/advances are paid against such project, or the concerned project account, is debited with allocated overhead charges, the liability account is debited. Unutilized grant as on 31.3.2024 is shown as liability in schedule – 3 of the Balance Sheet.

11.2 In addition to funds for Fellowships released by the UGC, Fellowship and Scholarship are also sponsored by various organizations. These are accounted in the same way as Sponsored Projects except that the expenditure generally is only on distribution of Fellowships and Scholarship, which may include allowances for contingent expenditure by Fellows and Scholars.

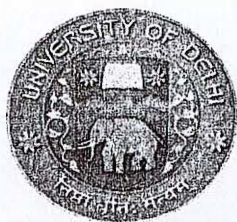
11.3 The Institution itself also awards Fellowships and Scholarships, which are accounted as Academic Expenses.

11.4 Assets purchased out of Project funded by outside agencies remain the property of the concerned funding agency till the project is closed. After closure of the project, the project assets are merged with the Fixed Assets of the University after depreciation charged at the rates applicable to the respective assets by debiting respective Fixed Assets account and crediting Capital Fund Account.

12 Income Tax:

The Income of the institution is exempt from Income Tax under section 10(23C) (iiiab) of the Income Tax Act. No provision for tax is therefore made in the accounts.

Dated: 24th June 2024



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SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 2024

SCHEDULE 24: CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS

1 Contingent Liabilities:

- (a) Various claims filed by present/former employees of the University are pending before Industrial Tribunals and the Hon'ble High Court of Delhi. The quantum of claims is not ascertainable.
- (b) The matter related to Common Wealth Game is Sub-Judice till date, so that an amount of Rs. 40.32 Crore including interest as on date has been kept in Earmarked/Endowment Fund to meet further unascertained Liability.
- (c) The matter related to Rajiv Gandhi Hostel is Sub-Judice till date, so that an amount of Rs. 14.78 Crore including interest as on date has been kept in Earmarked/Endowment Fund to meet further unascertained Liability.

2 Buildings Under Progress:

Out of the advance of Rs.83,05,82,983/- paid for building projects to various agencies till Financial Year 2023-24, a sum of Rs. 48,69,53,324/- has been shown as Capital work-in-progress leaving remaining balance of Rs. 34,36,29,659/- for ongoing construction work.

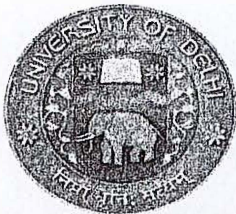
3 Fixed Assets:

- 3.1 Addition in the year to Fixed Assets in Schedule 4, Capital Assets Rs. 47,42,14,769/- (including work in progress Rs. 31,43,00,685/-) and Earmarked/Endowment Fund of Rs. 20,49,78,989/- which includes assets purchased out of Closed Sponsored Projects of Rs. 3,41,16,620, Library Books & other assets of the value of Rs. 1,647/- and gifted to the University of Delhi has been shown at nominal value Rs. 1/-. The assets have been set up by credit to the Capital Fund.
- 3.2 Fixed Assets set out in Schedule 4 do not include Assets purchased out of funds of ongoing Sponsored Projects, held & used by the university, as Project contracts include stipulations that all such Assets purchased out of Project funds will remain the property of Sponsors till the project is closed.



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- 4 The advances with M/s, Rites Ltd and Engineering India Limited (E.I.L.) has been adjusted on the basis of utilization certificate/expenditure details as submitted by the respective agencies. Some of the advances with RITES Ltd. are for ongoing construction work of one of the projects. There is an unconfirmed liability of M/s. E.I.L. & related to PMC Fee.
- 5 **Investment from Earmarked/ Endowment Funds**
The University has created two Companies (Section -8) namely University of Delhi Foundation & Udhmodya Foundation with 100% Equity in the name of University of Delhi and subscribed 1,50,000 equity shares of each company.
- 6 **Deposit Liabilities:**
No earnest money/security deposit has been transferred to Revenue Account.
- 7 **Expenditure in Foreign Currency:**
Transaction denominated in Foreign Currency is accounted for at the prevailing exchange rate at the date of payment/realization.
- 8 **Current Assets, Loans & Advances and Deposits:**
In the opinion of the management, the Current Assets, Loans and Advances have the value on realization in the ordinary course, equal at least to the aggregate amounts shown in the Balance Sheet. Since there were long outstanding advances for more than 10-15 years; most of the advances have been settled on the basis of available records/documents.
- 9 **Bank Balances:**
The details of balances in Savings Bank Accounts; Currents Accounts & Fixed Deposit Accounts with Banks are enclosed as attachment "A" to the schedule of Current Assets
 - All Savings Bank Accounts except Salary A/c, Capital Assets A/c and Recurring A/c with auto sweep facility (Flexi Deposit), generate interest at the rate applicable to the Fixed Deposit for the duration for which the funds are kept in the "Flexi Deposit Account". The interest income in such savings bank accounts is accounted for on accrual basis.
- 10 Previous year figures have been regrouped/rearranged wherever necessary.



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11 Figures in the final accounts have been rounded off to the nearest rupee.

12 Schedule 1 to 24 is annexed to & form an integral part of the Balance Sheet as at 31st March 2024 and the Income & Expenditure Account for the year ended 31st March 2024.

13 **Provident Fund Accounts**

The Provident Fund Accounts are the funds of subscribers only, as they were not taken in Books of Accounts of University. However, Receipts & Payments Accounts, Income & Expenditure Account (on Accrual basis) and Balance Sheet of the Provident Fund Accounts as well as the National Pension Scheme (NPS) for the year 2023-24 have been attached to the University's Accounts.

14 **Salaries:**

The expenditure on salary for the year includes the provision of salary for the month of March 2024.

15 **Prior Period Income and Expenses:**

The Income and Expenditure related to earlier years have been taken on as Prior Period Income & Prior Period Expenses in the respective Schedules.

15 **Halls & Hostel:**

As the Hall & Hostels are separate reporting entities, their annual accounts are prepared separately from the University of Delhi Accounts. However, a Consolidated Receipts & Payments Account, Consolidated Income & Expenditure Account, and a Consolidated Balance Sheet of all the Halls & Hostels and Guest Houses have been attached to the accounts of the University of Delhi.

16 **Institution of Eminence: -**

The Central Government, on the recommendations of the Empowered Expert Committee (EEC) and University Grants Commission (UGC) declared University of Delhi as an "Institution of Eminence Deemed to be University" with effect from the issuance of the Notification No. F.11/9/2019-U3(A) dated 2nd March, 2020. The Account of Institution of Eminence is incorporated as a Project Account in the annual accounts of the University of Delhi in Schedule-3(a) Sponsored Projects. During the Financial Year 2023-24, carried over opening balance of Rs.89.41 crore (Rs.19.21 crore and Rs.70.20 crore) and grant received during the year i.e. Rs. 176.96 Crores and interest/other income of Rs.2.53 crore, a sum of Rs. 121.90 Crores utilized towards expenditure during the F.Y. 2023-24, as per the accounts submitted by the IOE.



University of Delhi

17 International Guest House: -

Against the embezzlement amount of Rs. 9,67,325/- by one of the employees of the International Guest House, a sum of Rs. 2,88,383/- has already been recovered and a balance of Rs. 6,78,942/- has to be recovered from the arrears of salary payable to the terminated employee, but the employee has moved to the Court, so the matter is Sub-Judice.

Dated: -24th June 2024

UNIVERSITY OF DELHI
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2024

RECEIPTS		Current Year	Previous Year	PAYMENTS		Amount in ₹	Previous Year
I. Opening Balances				I. Expenses			
a) Cash Balances		----	----	a) Establishment Expenses	6411012488	6298389856	
b) Bank Balances				b) Academic Expenses	874808431	772915205	
i. In Current Accounts	26499075	45063494		c) Administrative Expenses	1426036657	1339025861	
ii. In Saving Accounts	1272820930	2109353820		d) Transportation Expenses	15920529	12875496	
iii. In Deposit Accounts	18187179406	16583372774		e) Repairs & Maintenance	255932964	288595715	
c) Permanent Advance	540000	1071500		f) Finance costs	41942	83093	
II. Grants Received				g) Expenditure on Grant	1713006026	169301972	
a) From Government of India		----	----	h) Prior Period Items	280565101	298586890	
b) From State Government		----	----	II. Payments against Earmarked/ Endowment Funds	942235886	639125161	
c) From University Grant Commission				III. Payments against Sponsored Projects/Schemes	2510509202	1926083451	
i) Grant for Capital Assets	100000000			IV. Payments against Sponsored /fellowship Fellowships/Scholarships	26492475	34272879	
ii) Grant for Salary/ recurring	7683900000			VI. Investments and Deposits made			
iii) Grants for EWS	78800000			a) Out of Earmarked/Endowment Funds	----	3000000	
iv) Grant to colleges for CPF to GPF	1690212724			b) Out of own funds (Investments - Others)	----	----	
d) From UGC Specific Schemes	49135933	9602048657	7971205343	VII. Term Deposits with Scheduled Banks	----	----	
III. Academic Receipts				VIII. Expenditure on Fixed Assets and Capital Work - In - Progress			
a) Fees and Subscriptions		1955684572	1535159573	a) Expenditure towards capital nature (Fixed Assets)	384115607	527127310	
IV. Receipts against Earmarked/Endowment Funds		905407694	874047575	b) Capital Works - In - Progress	----	----	
V. Receipts against Sponsored Projects/Schemes		2475318715	1116034254	IX. Other Payments	7030133	9120611	
VI. Unutilized OBC grant refunded by Colleges		6513446	5243407				
VII. Receipts against Sponsored Fellowships							
University of Delhi: 101st Annual Report 2023-24		37082181	26132579				956

UNIVERSITY OF DELHI
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2024

VIII. Income on Investments From			X. Refunds of Grants	29427325	11476389
a) Earmarked/Endowment Funds	1094297513	498953242			
b) Plan Accounts	316461323	225524218	XI. Deposits and Advances		
c) Sponsored Projects	106112322	106667459	a) LTC Advance	----	----
d) Sponsored Fellowship & Scholarship	5563645	3095440	b) Advance	----	9736581
IX. Interest received on			d) Advance out of Sponsored Projects, Plan, & Earmarked Fund	----	----
a) Bank Deposits	133949311	16771335	XII. Other Payments	266109900	9247910
b) Loans and Advances		----			
c) Savings Bank Accounts	10720946	15944141	XIII. Closing Balances		
X. Investments encashed	635100000	30083000	a) Cash in hand	----	----
			b) Bank Balances		
XI. Term Deposits with Scheduled Banks encashed	----	----	- In Current Accounts	839498	26499075
			- In Savings Accounts	1347182951	1272820930
XII. Other Income (including Prior Period Items)	102309679	155553377	- In Deposits Accounts	20670562443	18187179406
			c) Permanent Advance	929820	540000
XIII. Deposits and Advances					
a) LTC Advance	----	----			
b) Advances	----	----			
d) Advance out of Sponsored Projects, Plan, & Earmarked Fund	----	----			
XIV. Miscellaneous Receipts	5949738	8273063			
XV. Any Other Receipts	283200224	508454197			
TOTAL	37162759377	31836003791	TOTAL	37162759377	31836003791

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UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT
BALANCE SHEET AS ON 31st MARCH 2024

		(Amount/Rs.)					
Previous Year 31.03.2023	Liabilities		Current Year 31.03.2024	Previous Year 31.03.2023	Assets		Current Year 31.03.2024
	GPF						
4604383984	Opening Balance	4667288871		272000000	Investment (Bonds)		-
701409299	Add: Subscriptions/repayment of advance in the year	425088104					
313304533	Add: Interest Credited	310065251		4559600000	Fixed Deposit with scheduled bank		4785000000
(951800289)	Less: Advance/Withdrawal/Final settlement	(905587719)					
(8656)	Less: Adjustment relating to Previous yr.	(164749)		136238056	Interest Accrued as on 31.03.2024		152664756
4667288871	Closing Balance		4496689758				
	CPF						
482830956	Opening Balance	111792462			TDS receivable :		
					-- CPF	187498	
23214660	Add: Subscriptions & Contribution/ repayment of advance in the year	6303490		3649460	-- GPF	465633	653131
21310603	Add: Interest Credited	6021488					
(415563757)	Less: Advance/Withdrawal/Final settlement	(27347839)			Balances with State Bank of India in Saving Accounts :-		
111792462	Closing Balance		96769601	242130276	--GPF	175054596	
	Interest Reserve			33384374	--CPF	7463686	182518282
458243860	Opening Balance	467920834					
9676974	Add: Excess of Income over Expenditure	59455976					
467920834	Closing Balance		527376810				
	Provision for Subs. & Cont. for the M/o March'24				Sub. & Cont. receivable for the M/o March'24		
41544963	--GPF	34029907		41544963	--GPF	34029907	
591210	--CPF	479010	34508917	591210	--CPF	479010	34508917
5289138340	TOTAL		5155345086	5289138340			5155345086

UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2024

(Amount / Rs.)					
Previous Year 31.03.2023	Expenditure	Current Year 31.03.2024	Previous Year 31.03.2023	Income	Current Year 31.03.2024
	Interest Credited to:		307363507	Interest received on Investment & SB A/c	358951342
313304533	GPF Account	310065251	136238056	Interest accrued for the year	152664756
21310603	CPF Account	6021488	8656	Adjustment related to previous year (interest)	164749
1666	Bank Charges	76	(99316443)	Interest accrued for previous years	(136238056)
9676974	Excess of Income over Expenditure	59455976			
344293776	Total	375542791	344293776	Total	375542791

UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2023-24

Receipts	(Amount / Rs.)	Payments	(Amount / Rs.)
Opening Balance as on 01/04/2023			
GPF A/c No.10851298435	242130276	GPF Adv./Withdrawal/Final Settlement	905587719
CPF A/c No.10851298457	33384374	CPF Adv./Withdrawal/Final Settlement	27347839
GPF Subscription	425088104	Investment during the year	4785000000
CPF Subscription & University Contribution	6303490	Bank Charges	76
		Closing Balances:	
Investment Encashed	4831600000	GPF A/c No.10851298435	175054596
Interest Received	358951342	CPF A/c No.10851298457	7463686
TDS Refund Received	2996329		
TOTAL	5900453916	TOTAL	5900453916

NPS TIER-I ACCOUNT
BALANCE SHEET AS AT 31st MARCH 2024

(Amount / Rs.)							
	Amount 31.03.23	Liabilities		Amount 31.03.24	Amount 31.03.23	Assets	Amount 31.03.24
		<u>NPS Tier-I Account :-</u>				<u>NPS Tier-I Account :-</u>	
2119680		Opening Balance	2766699		3443000	Investment	6220000
647019		Add: Adjustment pertaining to prev. year	0				
329361550		Add: Subscription + Univ. Contribution received during the year	372225691		487729	Interest accrued but not due	113957
332128249			374992390				
(329361550)	2766699	Less: Subscription & Univ. Contribution transferred to NSDL	(372225691)		28058	TDS deducted on Flexi FD & FD	25383
		Less: Amount transfer to UGC Refundable A/c	(2766699)	0			
	26324126	Provision for Subs. & Cont. for the m/o March '24		34447468	26324126	Subs. & Cont. receivable for the m/o March '24	34447468
		<u>Interest Reserve :-</u>					
5016945		Opening Balance	5883754		4691666	Balance at Bank Saving A/cs	42467
866809	5883754	Add: Excess of Income over Exp.	518053	6401807			
	34974579	TOTAL		40849275	34974579	TOTAL	40849275

UNIVERSITY OF DELHI

NPS TIER-I ACCOUNT

INCOME & EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR 2023-24

(Amount / Rs.)					
Amount 31.03.23	Expenditure	Amount 31.03.24	Amount 31.03.23	Income	Amount 31.03.24
876	Bank Charges	102	613300	Interest received on investment	891927
866809	Excess of Income over Expenditure	518053	(132323)	Interest accrued for the year 2022-23 but realized during 2023-24	(487729)
			386708	Interest accrued but not due	113957
867685	TOTAL	518155	867685	TOTAL	518155

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UNIVERSITY OF DELHI

NPS TIER-I ACCOUNT

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2023-24

(Amount / Rs.)					
Amount 31.03.23	Receipts	Amount 31.03.24	Amount 31.03.23	Payments	Amount 31.03.24
3272223	Opening Balance as on 01/04/2023	4691666	1576000	Investment	13220000
329361550	Subscription & Univ. Contribution received during the year	372225691	329361550	Subscription & Univ. Contribution transferred to NSDL	372225691
453328	Interest Received on Investment	805833			
				0 Amount transfer to UGC Refundable A/c	2766699
159972	Interest on Saving Bank A/c	86094			
	0 TDS Refund Received	2675	876	Bank Charges	102
791238	Adjustment pertaining to previous year	0	144219	Adjustment pertaining to previous year	0
1736000	Investment Encashed (F.D.)	10443000	4691666	Closing balance as on 31.03.2024	42467
335774311	TOTAL	388254959	335774311	TOTAL	388254959

UNIVERSITY OF DELHI
HALLS AND HOSTELS
BALANCE SHEET AS AT 31st MARCH, 2024

	Amount in ₹	
SOURCE OF FUNDS	Current Year	Previous Year
COURPUS/CAPITAL FUND	410598023	376976071
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	75441461	59136999
CURRENT LIABILITIES & PROVISIONS	72671010	64840370
TOTAL	558710494	500953440
APPLICATION OF FUNDS		
Fixed Assets		
Tangible Assets	39688091	33024754
Intangible Assets	14	14
Capital Works-In-Progress	-----	-----
INVESTMENT FROM EARMARKED/ENDOWMENT FUNDS		
Long Term	-----	-----
Short Term	15943193	14923466
INVESTMENTS- OTHERS	87947204	86267512
CURRENT ASSETS	397466854	355677383
LOANS, ADVANCES & DEPOSITS	17719362	11114536
MISCELLANEOUS EXPENDITURE	(54224)	(54224)
TOTAL	558710494	500953440

UNIVERSITY OF DELHI
HALLS AND HOSTELS
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2024

Particulars	Amount in ₹	
	Current Year	Previous Year
(A) INCOME		
Academic Receipts	95304930	84089766
Grants/Subsidies	154128531	162401950
Income From Investment	23113381	16341725
Interest Earned	1928118	1339458
Other Income	56301870	43948682
Prior Period Income	33970	1943391
Total (A)	330810800	310064972
(B) EXPENDITURE		
Staff Payments & Benefits (Establishment Expenses)	100199151	109772076
Academic Expenses	-----	-----
Administrative and General Expenses	185188314	151794170
Transportation Expenses	296811	660938
Repair & Maintenance	12733833	12377538
Finance Costs	66638	77641
Depreciation	5009349	4404859
Other Expenses	-----	0
Prior Period Expenses	0	3057092
Total (B)	303494096	282144314
Excess of Income over Expenditure/ (Expenditure over Income) (A-B)	27316704	27920658
Balance being Surplus/(Deficit) carried to Capital Fund	27316704	27920658

UNIVERSITY OF DELHI
HALLS AND HOSTELS
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31st MARCH 2024

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Amount in ₹

Receipt	Current Year	Previous Year		Payment	Current Year	Previous year
I. Opening Balance				I. Expenses		
- Cash in Hand	21085	18344		(a) Establishment Expenses	123936550	114216489
- Bank Balance	90225949	75547864		(b) Academic Expenses	----	----
- Imprest	139694	106262		(c) Administrative Expenses	154758400	135298047
- Deposit Account	319958491	283203997		(d) Transportation Expenses	319711	660938
				(e) Repairs & Maintenance Expenses	12401980	12169126
II. Other Bank Balances/FDRs	22927902	0		(f) Prior Period Expenses	17500521	2664150
III. Grants Received	138983274	164929452		II. (a) Payments against Earmarked Fund	59714189	10541713
IV. Academic Receipts	88534182	78514755		(b) Payment against Projects	68601	285173
V. Receipts against Earmarked/Endowment Funds	89185033	19028517		III. Investments and Deposits made	758861	328765
VI. Interest Received	6665827	3763500		IV. Expenditure on Fixed Assets & Capital work-in-Progress	8304296	4096884
VII. Income from Investments	13451914	12132906		V. Finance Charges	65875	76290
VIII. Other Income	61069512	46432109		VI. Deposits and Advances	9383072	9118632
IX. Deposits and Advances	21201028	12122865		VII. Other Payments	29846938	8148434
X. Any Other Receipts	18424112	12149287		VIII. Closing Balances		
				- Cash in Hand	21079	21085
				- Bank Balance	96980560	90225949
				- Imprest	125779	139694
				- Deposit Account	356601591	319958491
Total	870788003	707949860		Total	870788003	707949860

