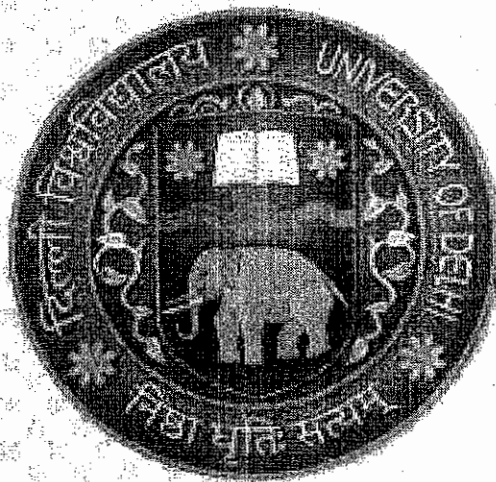


ORDINANCE

Bachelor's in Medical Laboratory Science (BMLS)



University of Delhi
Delhi - 110007

Shukla Das

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About the Course

Bachelor's in Medical Laboratory Science (BMLS) is an Undergraduate Program offered by University of Delhi.

Medical Laboratory Technology is an Allied Health specialty concerned with the diagnosis, treatment and prevention of diseases through the use of clinical laboratory tests. Though the Medical Lab technologists spend less time with patients than doctors and nurses, medical laboratory professionals are just as dedicated to patient's health.

As vital members of the health care team, medical laboratory professionals play a critical role in collecting the information needed to give the best care to an ill or injured patient. The fact is that the practice of modern medicine would be impossible without the tests performed in the laboratory.

Medical laboratory professionals have unlimited choices of practice settings. Hospitals, clinics, nursing homes, public health facilities, and commercial laboratories all have positions open right now for qualified laboratory professionals. In these settings, communication and research skills are highly valued. Employment of clinical laboratory workers is expected to grow as the volume of laboratory tests increases with population growth and the development of new types of tests.

SCHEME & SYLLABUS

Programme Name	: Bachelor's in Medical Laboratory Science (BMLS)
Duration of course	: 04 years
Semester Mode	: Phase-I (Semester I & II), Phase-II (Semester III, IV & V), Phase-III (Semester IV & VII), Internship Training (Semester-VIII) (i.e. CBCS (Choice Based Credit System) - Semester Based with 6-month Compulsory Internship)
Intake	: As per Colleges norms after approval of D.U. (85% Delhi Quota+15% All India Quota); and Supernumerary DU-Ward Quota as per norms of University of Delhi. Single Girls Child Quota as per University of Delhi norms/ Govt. of India norms.
Eligibility	: 10+2 pattern with PCBE* or Vocational Course in MLS/MLT.
Medium of Course	: English
Admission Procedure	: Eligible candidate as per "NEET-UG Entrance Examination" OR "Through Entrance Test conducted by University of Delhi"
Faculty	: (The concerned college would be required to submit an undertaking that the requisite faculty will be made available at its own level to run this course as per University norms)
Infrastructure	: The existing infrastructure of the Institution
Commencement of session	: As per Academic Calendar of the University
Closing of Admission	: As per Academic Calendar of the University
Maximum span period	: 06 Years
Coordinating Department/	: Department of Medical Microbiology, Faculty of Medical Sciences, University of Delhi

* 50% for UR/EWS, 45% for OBC & 40% for SC/ST/PwBD candidates

Duration of Course: 04 Years (including six-month compulsory internship)

SR. NO.	ACADEMIC Phase/Year	DURATION	SEMESTER
1	Phase-I	6 Months each	1 st & 2 nd
2	Phase-II	6 Months each	3 rd , 4 th & 5 th
3	Phase-III	6 Months each	6 th & 7 th
4	Internship	6 Months	8 th

Note: Maximum span period to complete the course - 06 Years

ELIGIBILITY CRITERIA FOR ADMISSION

ELIGIBILITY: A candidate who is an Indian citizen is eligible for admission to the course if he/she fulfil the following requirements:

- AGE ON ADMISSION:** An Applicant should have attained or will attain the age of 17 (seventeen) years as on or before 31st December of the admission year.
- The candidates must have passed 12th class examination under 10+2 system as a regular student, conducted by the CBSE/Council for the Indian School Certificate Examination/ Jamia Milia Islamia/Other Govt. recognized board, of states/center - for admission under Delhi University Quota (DUQ) of 85% seats. The candidate who have passed 12th from Patrachar Vidhalaya or National Institute of Open Schooling will also be eligible if he/she has the Study Centre and Examination Center is in Delhi only.
- For admission under Delhi University Quota, recognized school conducting regular classes of 11th and 12th Standard & situated within the National Capital Territory of Delhi only, will be eligible for admission with the required subjects i.e., Physics, Chemistry, Biology (Botany and Zoology) and English (core or elective) securing minimum of 50%marks (40% in case of SC/ST/OBC/ PwBD category candidates) in aggregate in these subjects.
- For admission under All India Quota, recognized school conducting regular classes of 11th and 12th Standard & situated other-then/Out-side of the National Capital Territory of Delhi, will be eligible for admission with the required subjects i.e., Physics, Chemistry, Biology (Botany and Zoology) and English (core or elective) securing minimum of 50%marks (40% in case of SC/ST/OBC/ PwBD category candidates) in aggregate in these subjects.
- The candidate must have passed Physics, Chemistry, Biology & English examinations both in theory and practical separately.
- A candidate shall not be eligible for admission to the Bachelor's in Medical Laboratory Science (BMLS) at the time of counseling on the following condition:
 - If he/she does not pass the qualify examination i.e.12th standard with required pass percentage of marks.
 - If he/she is placed under compartment.
 - If he/she is re-appearing for improvement.

PROCEDURE FOR SELECTION

All the candidates who are found provisionally eligible as per details stated under criteria of eligibility shall be required to;

- Eligible candidate as per NEET-UG Entrance Examination
- OR**
- Entrance Test which shall be conducted by the University of Delhi

However, any candidate provisionally admitted in the Course and found in-eligible at the later stage, his/her candidature will be cancelled.

CLOSING DATE OF ADMISSION: - As per Academic Calendar of the University

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TOTAL INTAKE STUDENTS PER YEAR : As per the availability of the faculty and infrastructure of the college concerned.

RESERVATION: As per the approved guidelines of Govt. of India.

Ward-Quota : As per the norms of the University of Delhi

SURETY BOND/SURETY BOND MONEY: -

A "BOND" worth Rs.1,00,000/- (One Lakh only) with two sureties should be executed by the candidates at the time of their provisional admission in BMLS. The admission will not be valid unless and until the Surety Bond is executed by the candidate.

Rules regarding payment of Surety Money: -

- If a student surrenders seat in violation of UCMS/Delhi University rules/instructions after joining the institution.
- If a student does not join the course at the allotted institution after allotment of seat in the Counseling after its last date.
- If the student leaves the courses before its completion.
- If the admission/registration of the student is cancelled/terminated by the University/College on account of unsatisfactory performance/misconduct/indiscipline.

The **Original Certificates** of the students would be kept in the custody of the College and would be returned only after completion of the course or on payment of Surety Bond money, as the case may be.

In case, any students left the seat before completion of the course in violation of the above said rules (a) (b) (c) (d) then he/she will be liable to pay bond money of Rs.1,00,000/- (One Lakh only). 30% of the bond money will be required to be deposited in the University of Delhi.

Migration: -No Migration (to and fro) is permitted in the Medical Colleges at the University of Delhi.

Cancellation rules/Fee refund rules: will be applicable as per the norms of the College/University applicable time to time.

MEDICAL EXAMINATION: will be applicable as per the norms of the College/University applicable time to time.

GENERAL

If any candidate selected for admission fails to join the course by the prescribed date, his/her seat shall be offered to the candidate next in the merit in the category, without any further correspondence.

COMMENCEMENT OF THE SESSION: -As per Academic Calendar of the University

Selected candidates shall be required to bring the following certificates in original for verification. Failure to produce the same may result in cancellation of admission: -

- All original certificates showing the eligibility of the candidate for admission to the 1st year Bachelor's in Medical Laboratory Science (BMLS) course.
- Certificate from the District Magistrate or the officials specified in the prospectus showing that the applicant belongs to Scheduled Caste/Tribe/OBC-NCL/PWD/EWS category as indicated in the prospectus.
- Character certificate from the Head of the Institution last attended.
- In case the candidate is already employed, Relieving Certificate and grant of permission to pursue the said course from the Head of the Office/Institution be submitted.

CLARIFICATIONS

- Any directions with regards to reservation provision in respect of PWD candidates received from the University of Delhi/Govt. in connection with the admission shall be followed accordingly.
- The college reserves the right to revise, amend, updates or delete any part of this bulletin, rules & regulation at its discretion as & when considered necessary by the competent authority of the College/University of Delhi.
- The admission offered for the 1st year Bachelor's in Medical Laboratory Science (BMLS) Course shall be "Provisional" and in case any discrepancy/ shortcoming/dispute & error with regard to the selection of the candidate is detected at any stage in the eligibility criteria or other norms laid down in the Prospectus for admission to the 1st year Bachelor's in Medical Laboratory Science (BMLS) Course, the admission shall be cancelled and the decision of the College/ University of Delhi shall be final and binding on the candidate.

Shri. C. Das

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DISCIPLINE

1. The student shall submit himself/herself to the disciplinary jurisdiction of the Vice- Chancellor and several authorities of the University who may be vested with the authority to exercise discipline under the Act, the Ordinance and the Rules that have been framed by the University from time to time.
2. The Student would undergo the course on full-time basis, no private practice, part-time job being permissible during the duration of the course.
3. University has all the right to remove the name of the student from the rolls in case his/her work or conduct is reported to be not satisfactory by the Supervisor/Head of the Department/Head of the Institution. An undertaking ("after admission I will follow the rules and regulations of the College/DU and action may be taken as per the rules laid down in the prospectus & by the College disciplinary committee") to this effect should be obtained from the student at the time of admission.
4. Admission will be terminated if the student is not regular and absent unauthorized/ without prior permission.

RAGGING (Ordinance XV-C)

1. Ragging in any is strictly prohibited, within the premises of College/ Department of Institution and any part of Delhi University system as well as on public transport.
2. Any individual or collective act or practice of ragging constitutes gross indiscipline and shall be dealt with under this Ordinance.
3. Ragging for the purpose of this Ordinance, ordinarily means act, conductor practice by which dominant power or status of senior students is brought to bear on students freshly enrolled or students freshly enrolled or students who are in any way considered junior or inferior by other students and includes individual or collective acts or practices which-
 - (a) Involve physical assault or threat to use of physical force;
 - (b) Violate the status, dignity and honour of women students;
 - (c) Violate the status, dignity and honour of students belonging to the scheduled castes and tribes;
 - (d) Expose students to ridicule and contempt and affect their self-esteem;
 - (e) Entail verbal abuse and aggression, indecent gestures and obscene behavior.
4. The Principal of a College, the Head of the Department or an Institution, the authorities of College, of University Hostel or Halls or Residence shall take immediate action on any information of the occurrence of ragging.
5. Not with standing anything in Clause (4) above, the Proctor may also *suo moto* enquire into any incident of ragging and make a report to the Vice-Chancellor of the identity of those who have engaged in ragging and the nature of the incident.
6. The Proctor may also submit an initial report establishing the identity of the perpetrators of ragging and the nature of the ragging incident.
7. If the Principal of a College or Head of the Department or Institution or the Proctor is satisfied that for some reason, to be recorded in writing, it is not reasonably practical to hold such an enquiry, he/she may so advise the Vice-Chancellor accordingly.
8. When the Vice-Chancellor is satisfied that is not expedient to hold such an enquiry, his/her decision shall be final.
9. On the receipt of a report under Clause (5) or (6) or a determination by the relevant authority under Clause (7) disclosing the occurrence of ragging incidents described in Clause 3(a),(b) and(c) the Vice-Chancellor shall direct or order rustication of a student or students for a specific number of years.
10. The Vice-Chancellor may in other cases of ragging order or direct that any student or students be expelled or be not for a stated period, admitted to a course of study in a college, departmental examination for one or more years or that the results of the student or students concerned in the examination or examinations in which they appeared be canceled.
11. In case any students who have obtained degrees of Delhi University are found guilty under this Ordinance appropriate action under Statute 15 for withdrawal of degrees conferred by the University shall be initiated.
12. For the purpose of this Ordinance, abatement to ragging whether by way of any act, practice or incitement of ragging will also amount to ragging.
13. All institutions within the Delhi University system shall be obligated to carry out instructions/directions issued under this Ordinance, and to give aid and assistance to the Vice-Chancellor to achieve the effective implementation of the Ordinance.
14. The medical council of India (presentation & prohibition of ragging in Medical Colleges/Institutions) regulations 2009 notified in the part III section 4 of the Gazette of India on 3.8.2009 amended from time to time be adhered to.
15. Sexual Harassment (Ordinance XV-D) has repelled by the act passed the Parliament the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 (Ref. No. Estab. II(i)/27/ACC/2006 dated 09-01-2014) (www.wcd.nic.in/wcdact/womenactsex.pdf).

AFTER ADMISSION

- **Attendance Criteria:** To appear at the Phase I, II & III University Examinations; 75% Attendance (theory + practical) is compulsory. Attendance is determined on the day to day room posting, lectures in theory and practical classes held in a year. Each component is weighed equally. Attendance will be counted from the commencement of the regular classes.

Dr. Cee Das

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FEE: - College/University Academic Fee for - Bachelor's in Medical Laboratory Science (BMLS) Course will be as per the decisions passed by the University fee committee time to time.

*Note: In case a candidate fails to clear the course within stipulated time of 04 years, additional annual fee will be charged on yearly basis.

- **Examination Fee:** As per the rules of University of Delhi.
- **Late Fine:** As per the rules of University of Delhi.
- **Fee Refund:** As per the rules of University of Delhi.
- **Examination:** As per the rules of University of Delhi.
- **ATTENDANCE:** A candidate has to secure minimum- 75% attendance in theory & practical (combined) to appear for the final examination. No relaxation, whatsoever, will be permissible to this rule under any circumstances.
- **Evaluation/Upgradation/Promotion to next year**
 1. For clearing a subject student has to secure at-least 50% marks in annual Theory and Practical examination separately.
 2. For promotion to next academic year at-least 50% of total subjects in the respective academic year must be cleared.
 3. In case of fraction in the total subjects, the fraction will be counted in the higher digit of subject (for example 3.5 will be counted as 4 subject).

➤ **Award of Degree**

The candidate will only be eligible for University Degree after completion of the Course with Internship (from the same institute). The minimum credit required for award of BMLS degree will be applicable as per the NEP-2020 or amended from time to time.

- **Broad Guidelines for Question Paper:** The question papers are key tools in assessing student learning process. Question papers are very meticulously planned so as to spread over the entire syllabus and possibly imbibe all components of assessment such as:

- 1) Knowledge
- 2) Comprehension
- 3) Application
- 4) Analysis & Evaluation
- 5) Synthesis
- 6) Creativity & Innovation

➤ **General Suggestions for Paper Setter**

1. Each question paper is of maximum 70 marks & for three hours' duration.
2. Paper Setter shall take into consideration while making the Question Paper, the respective weightage of the different sections as expressed in percentages in the course syllabus.
3. Part-I & II should include questions from each Section of the Course.
4. Paper Setters are free to choose questions of their choice.
5. Long questions should be framed in various components with weightage of each component duly specified.
6. While framing questions, kindly make sure that the questions are appropriate as per the B. Sc. MLT Programme syllabi.

➤ **INSTRUCTIONS TO PAPER SETTER**

1. The theory paper shall be of maximum 70 marks. Every question paper shall have 02 parts (Part-I & II) containing question from different section of the subject. Each part shall have maximum weightage of 35 marks each.
2. Question No.1 and 2 shall be long answer-questions of 10 marks each. The long answer-question of both the parts (part-I & II) shall be compulsory.
3. Apart from the long answer-question of each part (Part-I & II), there will be shall be 6 short answer-questions, out of which any 5 question shall be attempted. Each short answer-question shall carry 3 marks each.

- **Examination Scheme:** There shall be annual examinations at the end of each Phase to be conducted by the University of Delhi, followed by supplementary examinations three months later or six weeks after the declaration of the result which so ever is earlier.
- **Eligibility for external examiners:** - MD/MS/P.hD with minimum three years' experience in concerned specialty. There shall be minimum four examiners (2 external + 2 internal).
- **Theory:** - Annual University Examination of 70 marks out of total 100 marks at the end of each Phase. 30 marks out of 100 marks shall be for Internal Assessment based upon continuous Teacher's assessment throughout the year submitted by the college
- **Practical/Viva:** - Annual University Practical Examination of 70 marks out of total 100 marks at the end of each Phase. 30 marks out of 100 marks shall be for Internal Assessment based upon continuous Teacher's assessment throughout the year submitted by the college.

-Breakup of 70 marks: -

30 marks - for practical in the form of technique demonstration.
20 marks - for spotting.
20 marks - for viva-voce.

Shukla Das
Amr Kumar
Sanjay

SUGGESTED QUESTION PAPER FORMAT: Bachelor's in Medical Laboratory Science (BMLS)

University Examination	TIME: 3 HOURS	MAX. MARKS: 70
PART-I		Marks: 35
Q.1: Long Answer-Question	10 Marks	
Q.2: Long Answer-Question	10 Marks	
Q.3: Short Answer-Question (Answer any 5 Questions out of 6)	5x3 = 15 Marks	
PART-II		Marks: 35
Q.1: Long Answer-Question	10 Marks	
Q.2: Long Answer-Question	10 Marks	
Q.3: Short Answer-Question (Answer any 5 Questions out of 6)	5x3 = 15 Marks	

PROVISION OF LATERAL ENTRY: Students who have successfully completed DMLS/Diploma Course and would like to pursue Bachelor's in Medical Laboratory Science (BMLS) can directly enter into the second phase after qualifying the Entrance-Test, subject to availability of seats and after approval of Competent Authority of College/Faculty of Medical Sciences/Delhi University.

MEDIUM OF INSTRUCTION- English shall be the medium of instruction for all the subjects of study and for examination of the course.

Dr. K. S. Arora
Rajiv Kumar
Shruti

MODEL CURRICULUM OUTLINE**Phase-I - (1st and 2nd Semester) (Duration: 06 Months each)****1st Semester: Foundation Course**

Subject Code	Course Titles	Hours per week			Marks			CR
		L	T	P	Internal	External	Total	
BMLS-1 (Theory)	Introduction to National Healthcare Delivery System in India	2	-	-	15	35	50	1
	Basic computers and information Science	2	-	-	15	35	50	2
	Communication and soft skills	2	-	-	15	35	50	2
	Medical Terminology, Record keeping (including anatomical terms) and Orientation to Medical Laboratory Science (MLS)	2	-	-	15	35	50	2
	Medical Law and Ethics	2	-	-	15	35	50	2
	Introduction to Quality and Patient safety (including Basic emergency care and life support skills, Infection prevention and control, Biomedical waste management, Disaster management and Antibiotic resistance)	3	1	-	15	35	50	2
	Professionalism and values	1	-	-	15	35	50	1
	Environmental Science	1	-	-	15	35	50	1
	Principals of Management with special reference to Medical Laboratory Science (MLS) management	2	1	-	15	35	50	2
	Community orientation and clinical visit	1	-	-	15	35	50	1
BMLS-1 (Practical)	Basic computers and information Science - Practical	-	-	4	15	35	50	2
	Communication and soft skills – Practical	-	-	2	15	35	50	1
	Medical Terminology, Record keeping (including anatomical terms) and Orientation to Medical Laboratory Science (MLS) – Practical	-	-	2	15	35	50	1
	Introduction to Quality and Patient safety (including Basic emergency care and life support skills, Infection prevention and control, Biomedical waste management, Disaster management and Antibiotic resistance) – Practical	-	-	4	15	35	50	2
	Environmental Science – Practical	-	-	2	15	35	50	1
	Principals of Management with special reference to Medical Laboratory Science (MLS) management-Practical	-	-	2	15	35	50	1
Total		16	2	16	240	560	800	26
Total Hours in Semester		544						

NOTE:

1. Abbreviations: L - Lecture, T - Tutorials and P – Practical
2. Considering four months per semester as working months, total contact hour hours per semester shall be 544 (Five hundred and forty-four)
3. Teaching resources should be made available at every institute for all basic subjects

Phase-I (2nd Semester)

Subject Code	Course Titles	Hours per week			Marks			CR
		L	T	P	Internal	External	Total	
BMLS-2 (Theory)	General Clinical Microbiology	4	-	-	30	70	100	4
BMLS-3 (Theory)	Basic Haematology	4	-	-	30	70	100	4
BMLS-4 (Theory)	Basic Clinical Biochemistry	4	-	-	30	70	100	4
BMLS-5 (Theory)	Human Anatomy and Physiology	4	-	-	30	70	100	4
BMLS-2 (Practical)	General Clinical Microbiology – (Practical)	-	-	4	30	70	100	2
BMLS-3 (Practical)	Basic Haematology – (Practical)	-	-	4	30	70	100	2
BMLS-4 (Practical)	Basic Clinical Biochemistry – (Practical)	-	-	4	30	70	100	2
BMLS-5 (Practical)	Human Anatomy and Physiology –	-	-	4	30	70	100	2
	Guest Lecture/Tutorial/Seminar/visit to any medical research institution or reputed clinical laboratory		2	-	-	-	-	2
Total		16	2	16	240	560	800	26
Total Hours in Semester		544						

NOTE:

1. Abbreviations: L - Lecture, T - Tutorials and P - Practical
2. Considering four months per semester as working months, total contact hour hours per semester shall be 544 (Five hundred and forty-four)

Annual Examination	
Total no. of Theory Paper	05
Total no. of Practical Paper	04
	1. Microbiology including: (BMLS-1) + (BMLS-2)
	2. Pathology including: (BMLS-3)
	3. Biochemistry including: (BMLS-4)
	4. Anatomy + Physiology (BMLS-5)

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Phase-II – (Semester 3rd, 4th & 5th), (Duration: 06 Months each)**A. Phase-II (3rd Semester)**

Subject Code	Course Titles	Hours per week			Marks			CR
		L	T	P	Internal	External	Total	
BMLS-6 (Theory)	Systematic Bacteriology	4	-	-	30	70	100	4
BMLS-7 (Theory)	Basics of Haematological diseases	4	-	-	30	70	100	4
BMLS-8 (Theory)	Biochemical metabolism	4	-	-	30	70	100	4
BMLS-9 (Theory)	Fundamentals of Histology	4	-	-	30	70	100	4
BMLS-6 (Practical)	Systematic Bacteriology– (Practical)	-	-	4	30	70	100	2
BMLS-7 (Practical)	Basics of Hematological diseases – (Practical)	-	-	4	30	70	100	2
BMLS-8 (Practical)	Biochemical metabolism – (Practical)	-	-	4	30	70	100	2
BMLS-9 (Practical)	Fundamentals of Histology – (Practical)	-	-	4	30	70	100	2
	Guest Lecture/Tutorial/Seminar/visit to any medical research institution or reputed clinical laboratory	-	2	-	-	-	-	2
Total		16	2	16	240	560	800	26
Total Hours in Semester		544						

NOTE:

1. Abbreviations: L - Lecture, T - Tutorials and P – Practical
2. Considering four months per semester as working months, total contact hour hours per semester shall be 544 (Five hundred and forty-four)

B. (Phase-II) 4th Semester

Subject Code	Course Titles	Hours per week			Marks			CR
		L	T	P	Internal	External	Total	
BMLS-6 (Theory)	Applied Bacteriology	4	-	-	30	70	100	4
BMLS-7 (Theory)	Applied Haematology – I	4	-	-	30	70	100	4
BMLS-8 (Theory)	Analytical Clinical Biochemistry	4	-	-	30	70	100	4
BMLS-9 (Theory)	Applied Histopathology – I	4	-	-	30	70	100	4
BMLS-6 (Practical)	Applied Bacteriology– (Practical)	-	-	4	30	70	100	2
BMLS-7 (Practical)	Applied Haematology - I -- (Practical)	-	-	4	30	70	100	2
BMLS-8 (Practical)	Analytical Clinical Biochemistry – (Practical)	-	-	4	30	70	100	2
BMLS-9 (Practical)	Applied Histopathology - I – (Practical)	-	-	4	30	70	100	2
	Guest Lecture/Tutorial/Seminar/visit to any medical research institution or reputed clinical laboratory	-	2	-	-	-	-	2
Total		16	2	16	240	560	800	26
Total Hours in Semester		544						

NOTE:

1. Abbreviations: L - Lecture, T - Tutorials and P – Practical
2. Considering four months per semester as working months, total contact hour hours per semester shall be 544 (Five hundred and forty four)

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C. (Phase-II) 5th Semester

Object Code	Course Titles	Hours per week			Marks			CR
		L	T	P	Internal	External	Total	
BMLS-10 (Theory)	Immunology & Bacterial serology	4	-	-	30	70	100	4
BMLS-11 (Theory)	Applied Haematology – II	4	-	-	30	70	100	4
BMLS-12 (Theory)	Applied Clinical Biochemistry – I	4	-	-	30	70	100	4
BMLS-13 (Theory)	Applied Histopathology - II	4	-	-	30	70	100	4
BMLS-10 (Practical)	Immunology & Bacterial serology – (Practical)	-	-	4	30	70	100	2
BMLS-11 (Practical)	Applied Haematology - II – (Practical)	-	-	4	30	70	100	2
BMLS-12 (Practical)	Applied Clinical Biochemistry – I- (Practical)	-	-	4	30	70	100	2
BMLS-13 (Practical)	Applied Histopathology-II – (Practical)	-	-	4	30	70	100	2
	Guest Lecture/Tutorial/Seminar/visit to any medical research institution or reputed clinical laboratory	-	2	-	-	-	-	2
Total		16	2	16	240	560	800	26
Total Hours in Semester		544						

NOTE:

1. Abbreviations: L- Lecture, T- Tutorials and P – Practical
2. Considering four months per semester as working months, total contact hour hours per semester shall be 544 (Five hundred and forty-four)

Annual Examination	
Total no. of Theory Paper	08
Total no. of Practical Paper	03
	5. Microbiology including: (BMLS-6) + (BMLS-10)
	6. Pathology including: (BMLS-7) + (BMLS-9) + (BMLS-11) + (BMLS-13)
	7. Biochemistry including: (BMLS-8) + (BMLS-12)

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Phase-III (Semester 6 & 7), (Duration: 06 Months each)**A. (Phase-III) 6th Semester**

Subject Code	Course Titles	Hours per week			Marks			CR
		L	T	P	Internal	External	Total	
BMLS-14 (Theory)	Medical Parasitology & Entomology	4	-	-	30	70	100	4
BMLS-15 (Theory)	Advanced Haematology	4	-	-	30	70	100	4
BMLS-16 (Theory)	Applied Clinical Biochemistry – II	4	-	-	30	70	100	4
BMLS-17 (Theory)	Cytopathology	4	-	-	30	70	100	4
BMLS-14 (Practical)	Medical Parasitology & Entomology - (Practical)	-	-	4	30	70	100	2
BMLS-15 (Practical)	Advanced Haematology - (Practical)	-	-	4	30	70	100	2
BMLS-16 (Practical)	Applied Clinical Biochemistry – II-- (Practical)	-	-	4	30	70	100	2
BMLS-17 (Practical)	Cytopathology - (Practical)	-	-	4	30	70	100	2
	Guest Lecture/Tutorial/Seminar/visit to any medical research institution or reputed clinical laboratory	-	2	-	-	-	-	2
Total		16	2	16	240	560	800	26
Total Hours in Semester		544						

NOTE:

1. Abbreviations: L - Lecture, T - Tutorials and P – Practical
2. Considering four months per semester as working months, total contact hour hours per semester shall be 544 (Five hundred and forty four)

B. (Phase-III) 7th Semester

Subject Code	Course Titles	Hours per week			Marks			CR
		L	T	P	Internal	External	Total	
BMLS-18 (Theory)	Medical Mycology and Virology	4	-	-	30	70	100	4
BMLS-19 (Theory)	Blood Banking & Genetics	4	-	-	30	70	100	4
BMLS-20 (Theory)	Immunopathology & Molecular Biology	4	-	-	30	70	100	4
BMLS-21 (Theory)	Research methodology and Biostatistics	4	-	-	30	70	100	4
BMLS-18 (Practical)	Medical Mycology and Virology - (Practical)	-	-	4	30	70	100	2
BMLS-19 (Practical)	Blood Banking & Genetics- (Practical)	-	-	4	30	70	100	2
BMLS-20 (Practical)	Immunopathology & Molecular Biology - (Practical)	-	-	4	30	70	100	2
BMLS-21 (Practical)	Research methodology and Biostatistics - (Practical)	-	-	4	30	70	100	2
	Guest Lecture/Tutorial/Seminar/visit to any medical research institution or reputed clinical laboratory	-	2	-	-	-	-	2
Total		16	2	16	240	560	800	26
Total Hours in Semester		544						

NOTE:

1. Abbreviations: L - Lecture, T - Tutorials and P – Practical
2. Considering four months per semester as working months, total contact hour hours per semester shall be 544 (Five hundred and forty-four)

2nd Co-Ds