




Faculty Details proforma for DU Web-site

Title	DR.	First Name	SURESH CHAND	Last Name	RAI	Photograph
Designation		Professor & Head				
Address		Department of Geography; Delhi School of Economics; University of Delhi; Delhi-110007				
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Web-Page		http://www.du.ac.in/geography/scrai.htm				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Banaras Hindu University			1984	
M. Sc.		Banaras Hindu University			1979	
B. Sc (H)		Banaras Hindu University			1977	
Career Profile						
<ul style="list-style-type: none"> • Professor: Department of Geography; Delhi School of Economics; University of Delhi; Delhi-110007, from 21st Feb 2014 • Reader/Associate Professor: Department of Geography; Delhi School of Economics; University of Delhi; Delhi-110007 up to 20th Feb 2014. • Scientist, A, B & C: G.B. Pant Institute of Himalayan Environment and Development (An Autonomous Institute under Ministry of Environment and Forest, Govt. of India) from 1992-April 2005. 						
Administrative Assignments						
<ul style="list-style-type: none"> • Head: Department of Geography, Delhi School of Economics, University of Delhi, Delhi-110007 • Dy. Coordinator: DRS-III, UGC Special Assistant Programme, Department of Geography, University of Delhi. • Provost: D.S. Kothari Hostel, University of Delhi, Delhi-110007 • Member Governing Body: Bharti College, University of Delhi, Delhi-110007 • Vice Chancellor Nominee: Board of Research Studies, Faculty of Education, University of Delhi, Delhi-110007 						
Areas of Interest / Specialization						
Watershed Management; Mountain Hydrology; Ecotourism and Conservation						

Subjects Taught				
Advanced Physical Geography, Hydrology and Water Resource Management, Research Methodology, Geomorphologic Analysis and Land Form and Geo-environmental Application				
Time table of the subjects taught during the current semester (2017-2018)				
S.No.	Subject	Days	Time	Classroom
1	309: Geomorphologic Analysis (Lecture)	Tuesday	9:00-10:40	Lecture Hall-2
2	309: Geomorphologic Analysis (Tutorial)	Tuesday	13:30-14:20	Lecture Hall-2
3	411: Hydrology and Water Resource Management (Lecture)	Monday	9:00-10:40	Lecture Hall-2
4	411: Hydrology and Water Resource Management (Tutorial)	Monday	10:40-11:30	Lecture Hall-2
5	401: M.A. Project Work	Monday	2:00-4:00	My Office (Room No. 17)
6	M. Phil Course-I Research Methodology (Course shared with other faculty members)	Monday	16:10-17:30	M. Phil. Room
7	M. Phil Course-III Specialization (Land Form and Geo-environmental Application)	Thursday	2:00-3:30	My Office (Room No. 17)
8	Ph.D. Supervision/Discussion 7 Students registered		Minimum 2 hours per student per week	My Office (Room No.17)
9	Ph.D. course –II Specialization, 1 students	Thursday	10 sessions, 2 hours each	My Office (Room No 17)
10	M. Phil. Supervision/Discussion 3 Students registered		Minimum 1 hour per student per week	My Office (Room No.17)
Research Guidance				
Ph.D.: 7 Students M. Phil: 3 Students				
Publications Profile				
In Indexed/ Peer Reviewed Journals (LAST FIVE YEARS)				
Year of Publication	Title	Journal	Co-Author	
2018	Modelling LULC change dynamics and its impact on environment and water security: geospatial technology based assessment.	<i>Ecology, Environment and Conservation</i> , 24: S292-S298,	Sarkar Anindita & Others Suruchi	
2017	Inventory and recently increasing GLOF susceptibility of glacial lakes in Sikkim, Eastern Himalaya.	<i>Geomorphology</i> , 295: 39-54	Aggarwal & Others	
2017	Assessment of impervious surface growth in urban environment through Remote Sensing estimates.	<i>Environmental Earth Sciences</i> , 76:541, DOI 10.1007/s12665-017-6877-1,	Sarkar, Anindita & Others	

2017	Comparing the capability of ETM+ and LISS-III imagery in Riparian forest mapping: a case study of Maroon river, Iran.	<i>Lebanese Science Journal</i> , 18(2): 226-233,	Nejad, M.F., Torahi, Ali,
2016	Rainwater harvesting: a solution to water scarcity in the National Capital Region (NCR), Delhi, India.	<i>Annals of the National Association of Geographers, India</i> , 36 (1): 53-65	Niji Bathla
2015	Farmers' willingness-to-pay towards soil and water conservation measures in agro-ecosystems of Chotanagpur Plateau, India.	<i>Water and Environment Journal</i> , 29 (4): 523-532	A. Gulati
2015	Impact of urban sprawl on groundwater quality: a case study of Faridabad city, National Capital Region of Delhi.	<i>Arabian Journal of Geosciences</i> , 8 (10): 8039-8045.	A.K. Saha
2014	Cost estimation of soil erosion and nutrient loss from a watershed of the Chotanagpur Plateau, India	<i>Current Science</i> , 107 (4): 670-674	A. Gulati
2014	A cost-benefit analysis of indigenous soil and water conservation measures in Sikkim Himalaya, India	<i>Mountain Research and Development</i> , 34 (1): 27-35, Switzerland	P.K. Mishra
2014	Food security in drought prone regions of India	<i>Annals of the National Association of Geographers, India</i> , XXXIV (2):72-83	Nancy Kausik
2013	Use of indigenous soil and water conservation practices among farmers in Sikkim Himalaya	<i>Indian Journal of Traditional Knowledge</i> , 13 (3): 454-464	P. K. Mishra
2013	Modeling for prediction of land cover changes based on bio-physical and human factors in Zagros Mountains, Iran	<i>Indian Society of Remote Sensing</i> , 41 (1): 845-854, Springer	Ali A. Torahi
2013	Soil and organic matter characterization of an agrarian micro watershed in Chotanagpur Highlands.	<i>Indian Journal of Life Sciences</i> , 2(2): 109-112	A. Gulati

Publications in the Last one year

1. Sarkar Anindita, Singh, Prafull and **Rai, S.C.** (2018) Modelling LULC change dynamics and its impact on environment and water security: geospatial technology based assessment. *Ecology, Environment and Conservation*, 24: S292-S298, (ISSN: 0971-765X).
2. Aggarwal, Suruchi, **Rai, S.C.**, Thakur, P.K., and Emmer, Adam (2017) Inventory and recently increasing GLOF susceptibility of glacial lakes in Sikkim, Eastern Himalaya. *Geomorphology*, 295: 39-54 (ISSN: 0169-555X).

3. Sarkar, Anindita, Singh, P. K., and **Rai, S.C.** (2017) Assessment of impervious surface growth in urban environment through Remote Sensing estimates. *Environmental Earth Sciences*, 76:541, DOI 10.1007/s12665-017-6877-1, Springer-Verlag GmbH Germany, (ISSN: 1866-6280).
4. Nejad, M.F., Torahi, Ali, and **Rai, S.C.** (2017) Comparing the capability of ETM+ and LISS-III imagery in Riparian forest mapping: a case study of Maroon river, Iran. *Lebanese Science Journal*, 18(2): 226-233, Lebanon, (ISSN: 1561-3410).
5. **Rai, S.C.** and Jyoti Nagpal (2017) An assessment of domestic water use practices in Delhi, pp 445-458. In: *Sustainable Smart Cities in India*, (eds.) P. Sharma and S. Rajput. Springer International Publishing, (ISBN: 978-3-319-47144-0).

Book:

Rai, S.C. (2017) Hydrology and Water Resources: A Geographical Perspective. Ane Books Pvt. Ltd., New Delhi, 239 p, (ISBN: 978-93-8546-281-8).

Conference Organization/ Presentations (in the last three years)

- **39th Indian Geography Congress**, held at Department of Geography, Osmania University Hyderabad from 5th to 7th December, 2017. Chaired one technical session.
- **The 2017 Annual Conference on Geographic Research for the Northern China Region**, held at Shijiazhuang, China from 12-14 May, 2017. Attended and delivered lecture.
- Delivered Invited Lecture in **Peking University, China** on 15th May 2017.
- **Mentor, INSPIRE Internship Science Camp**, held at Arunachal University, Namsai, Arunachal Pradesh from 30th Jan.-3rd Feb, 2017. Delivered one lecture.
- **38th Indian Geography Congress**, held at Department of Studies in Geography, University of Mysore, from 26-28 December 2016. Chaired one technical session.
- 6th International Conference on **“Changing Dimension of Water Resource: A Challenge Before Mankind”**, Organized by Nalanda Open University, Patna, from 18-20 November, 2016. Chaired One Session.
- National Seminar on **“Promotion and Development of Cartographic Education: Contemporary Situation and Future Plans”**, Organized by Department of Geography, University of Mumbai, from 30th August to 31st August, 2016. Presented Paper and Chaired one session.
- National Conference on **“Himalayan Perspectives: Land, People and Resources”**, organized by Department of Geography, Kamala Nehru College, University of Delhi, on 12th April, 2016. Participated as Guest of Honour and Delivered Lecture.
- National Seminar on **“Environmental Ethics, Resources Depletion and Sustainable Development”** Sponsored by UGC and held at Department of Geography, Kalindi College, University of Delhi from 25-26th February, 2016. Participated as Distinguished Guest and Delivered Lecture.
- **Book Release Function and Two-day National Conference on ICSSR Research Survey and Explorations in Economic Geography**, held at JNU Convention Centre, Auditorium-II, Jawaharlal Nehru University, New Delhi from 22-23rd March 2016. Participated as Panellists.
- **“Russian Geographical Society Meeting”**, held at **Moscow**, from 30th October to 31st October, 2015. Attended and participated in Discussions.
- **37th Indian Geography Congress** held at Department of Geography, University of Jammu, J&K from 2-4 December 2015. Co-Chaired Prof. C.P. Singh Memorial Lecture.
- National Seminar on **“Land Use Management in Perspective of Eco-development with Special Reference to Eastern U.P. (India)”**, held at Department of Geography, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur from November 19-20, 2015. Attended as Chief Guest and Delivered Lecture.
- **1st Himalayan Conclave: An IBSD Initiatives**, held at Conference Centre, University of Delhi from September 9-10, 2015. Chaired Technical Session IV on Water Resources.

Research Projects (Major Grants/Research Collaboration)
<ul style="list-style-type: none"> • Principal Investigator “Climate Variability and its Impact on Agro-biodiversity and Livelihood Security in Traditional Farming of the Sikkim Himalaya”. This Project is funded by G.B. Pant Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora-263643, Uttarakhand, (April, 2018-2021)
Awards and Distinctions
<ul style="list-style-type: none"> • Received “Highly Commended Paper Award-2016” from Willey and Chartered Institution of Water and Environmental Management (CIWEM), London, U.K. • Received “Professor Bandaru Hema Malini Eminent Geographers Award- 2013” by National Association of Geographers, India (NAGI) at Madras University, Chennai. • Received “Honourable Mention Best Paper Award for 1999” by Soil and Water Conservation Society, USA. • En-gratis Membership Awarded by Ecological Society of America 1999-2004. • Honorary Appointment to the Research Board of Advisors, 2000 by The Board of Directors, Governing Board of Editors, and Publications Board of The American Biographical Institute, USA.
Association With Professional Bodies
<ul style="list-style-type: none"> • Life Member, National Association of Geographers, India, Delhi, India • Life Member, Environmental Monitoring Society, New Delhi, India • Life Member, Sikkim Science Society, Gangtok, Sikkim, India • Life Member, Indian Society of Remote Sensing, Dehradun, Uttarakhand, India • Life Member, AGS, Department of Geography, University of Delhi, Delhi, India • Life Member, Mahamana Malviya Mission, Deen Dayal Upadhyay Marg, New Delhi • Life Member, Indian Science Congress Association, Kolkata, W.B.
Other Activities
<ul style="list-style-type: none"> • Secretary General, National Association of Geographers, India • Member: Scientific Advisory Committee, G.B. Pant Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora, 263643, (Uttarakhand) • Member, Editorial Board of “Agriculture, Forestry and Fisheries Journal”, USA, Since 2012. • Member, Board of Advisors, “Journal of Integrated Development and Research”, Since 2011. • Member, Advisory Board, “The Horizon: A Journal of Social Sciences”, Since 2012. • Member, Board of Research, Department of Geography, M.D. University Rohtak, from 2009-12 • Member, Board of Research, Department of Geography, H.P. University Shimla, Since, 2009 till date • Member, Board of Research, Department of Geography, The IIS University, Jaipur, From July 2017-June 2019. • Member, Board of Studies and R.D.C., Department of Geography, Kumaun University, Nainital, since November 2017.