




DEPARTMENT OF GEOGRAPHY

DYAL SINGH COLLEGE, UNIVERSITY OF DELHI

FACULTY DETAIL



Title	Dr.	First Name	RAJESH KUMAR	Last Name	ABHAY	Photograph
Designation		Assistant Professor				
Address		Department of Geography, Dyal Singh College, University of Delhi, Lodhi Road, New Delhi-110 003				
Phone No. Office		011-24367819				
Residence		-				
Mobile		9968158456				
Email		rkabhay@dsc.du.ac.in				
Web-Page						
Educational Qualifications						
Degree		Institution				Year
Ph.D.		Department of Geography, Delhi School of Economics, University of Delhi				2015
M. Phil.		Department of Geography, Delhi School of Economics, University of Delhi				2009
M.A. in Geography		Department of Geography, Delhi School of Economics, University of Delhi				2006
B.A. (Hons) Geography		Department of Geography, Dr. B.R. Ambedkar College, University of Delhi				2003
Career Profile						
Organisation/ Institution			Designation		Duration	Role
Dyal Singh College (University of Delhi), Lodhi Road, New Delhi-110003			Assistant Professor		From 20 th July, 2015 to Till Today	Teaching and Research
Kalindi College (University of Delhi), East Patel Nagar, Delhi-110008			Assistant Professor (Ad-hoc)		2014-15	Teaching
Department of Geography, Delhi School of Economics, University of Delhi, Delhi-110 007			Assistant Professor (Ad-hoc)		2012-14	Teaching and Research
Kamala Nehru College (University of Delhi), August Kranti Marg, New Delhi- 110049.			Assistant Professor (Ad-hoc)		2009-12	Teaching
Shaheed Bhagat Singh College, (University of Delhi), Sheikh Sarai, Delhi-110 017			Assistant Professor (Ad-hoc)		2008-09	Teaching
Administrative Assignments (From 1 st July 2018 onwards)						
<ul style="list-style-type: none">• Convener, Web Development Committee, Dyal Singh College, University of Delhi, 2022-23, 2023-24.• Convener, DSC-Sustainability Forum, Dyal Singh College, University of Delhi, 2022, 2022-23. 2023-24• Nodal Officer (Open Book Exam), Dyal Singh College, Nov-Dec. 2021 to March-April 2022• Convener, Geography Society, Department of Geography, Dyal Singh College, University of Delhi, 2020-21.• Member, IQAC, Dyal Singh College, University of Delhi, 2020-21. 2021-22, 2022-23, 2023-24						

<ul style="list-style-type: none"> • Practical Coordinator, Dyal Singh College, University of Delhi, 2019-20. • Teacher In-Charge, Department of Geography, Dyal Singh College, University of Delhi, Lodhi Road, Delhi-110 008, for the Academic Session-2019-2020. • Programme Officer, NSS, Dyal Singh College, University of Delhi, 2018-19, 2019-2020. • Convener, J&K, PMSSS, Dyal Singh College, University of Delhi, 2017-18, 2018-19. • Convener, Fee Concession Committee, Dyal Singh College, University of Delhi, 2017-18 • Member, College Disaster Management Committee, Dyal Singh College, University of Delhi, 2017-18, 2018-19. 	
Areas of Interest / Specialization	
<ul style="list-style-type: none"> • Natural Resource Management • Resource Sustainability and Resilience • Remote Sensing and GIS 	
Subjects Taught	
At Under-Graduate Level <ul style="list-style-type: none"> • Urbanization and Urban Systems • Sustainable Resource Development • Contemporary Environmental Issues • Regional Planning and Development • Evolution of Geographical Thought • Resource Geography • Remote Sensing and GIS (PR) • Cartographic Techniques (PR) • Introduction to GIScience (PR) 	At Post-Graduate Level <ul style="list-style-type: none"> • Regional Development in India • Urban Impacts on Natural Resources and Environment • Systematic Agricultural Geography • Hydrology and Water Resources Management • Techniques and Methods of Regional Analysis • Social Geography of India
Research Guidance	
<ul style="list-style-type: none"> • Kirtti Prabha: Measurement of Agricultural Sustainability for the Livelihood Security of Farmers in Mahendergarh District, Haryana, M.Phil. Dissertation (Awarded in May 2022). • Rikta Pal: The Impact of Anthropogenic Activities on the Rudrasagar Wetland of Tripura: A Management Perspective, Ph.D. Thesis (Ongoing from February 2021) • Shivam Chourasiya: Evaluation of Built-up Expansion and Liveability for Regional Sustainability in Kanpur Nagar District, Uttar Pradesh, Ph.D. Thesis (Ongoing from 2023). 	
Publications Profile (From 1 st July 2018 onwards)	
BOOKS 2023 : Constraints in Achieving Sustainability of India, The Energy Research Institute, New Delhi. 2021 : Resource Management, Sustainable Development and Governance: Indian and International Perspectives, Springer, Cham. 2021 : Perspectives in Human Geography, Delhi: Concept Publications Company, ISBN: 978-03-88937-83-2, 294pp. (Co-Author)	
RESEARCH PAPERS IN JOURNALS 2023 : "Housing shortage in a mega city: a spatio-temporal analysis of NCT-Delhi, 2001–2011", <i>GeoJournal</i> , ISSN: 1572-9893, https://doi.org/10.1007/s10708-022-10597-5 (with M. Sharma) 2023 : Colonial imprints in contemporary urban livability: an inter-ward analysis of Kolkata. <i>GeoJournal</i> . https://doi.org/10.1007/s10708-022-10606-7 . (with A. Chakraborty and M. Sharma) 2023 : Out-of-school girls in India: a study of socioeconomic-spatial disparities, <i>GeoJournal</i> , ISSN: 1572-	

9893, <https://doi.org/10.1007/s10708-022-10579-7> (with S. Mitra and S. K. Mishra)

2023 : "Scourge in Interlinking Rivers of India: An analysis of Emerging Human-Ecological-Technological Constraints using SWOC", *Shodhasamhita*, ISSN: 2277-7067, 9(11-V): 8-21. (Second author)

2022 : "Urban growth and quality of life: inter-district and intra-district analysis of housing in NCT-Delhi, 2001–2011–2020", *GeoJournal*, ISSN: 1572-9893, <https://doi.org/10.1007/s10708-021-10570-8> (with M. Sharma)

2021 : "Intra-District variations and emerging concerns in agricultural development of Siddharthnagar District, Uttar Pradesh", *The Indian Geographical Journal*, ISSN 0019-4824, 96(1): 1-14. (with Shweta Rani)

2021: "Regional dimensions of spatial variations in socio-economic development in Siddharthnagar district, Uttar Pradesh", *Horizon: A Journal of Social Science*, 12(1): 105-121. (Co-author)

2019 : "Role of people, city cleanliness and solid waste management for sustainability of Surat City, Gujarat, India", *Regional Symbiosis*, 27: 45-58. (Co-Author)

2019 : "Analysing Issues and Challenges of Land Resource Sustainability in Kendujhar District, Odisha", *Indian Journal of Geography*, 22: 118-129.

2018 : "Measuring resilience of land against degradation from a farmer's perspective approach in Kendujhar Plateau, Odisha (India)", *European Journal of Geography*, 9(1): 23-37 (Impact Factor: 0.567) (Co-Author)

2018 : "Irrigation, agricultural sustainability and water management in Rajasthan", *World Focus*, 39(10): 81-86.

2018 : "Groundwater development in Sikar district, Rajasthan", *Sree Journal of Spatial Perspective*, 2(1): 43-52.

BOOK CHAPTERS

2023 : "Introduction and overview", in R.K. Abhay, D.N. Pandey and S. Rani (Eds.) *Constraints in Achieving Sustainability of India*. New Delhi: TERI Press, pp. 1-13 (Second Author).

2023 : "Sustainable Development: Concept, components and history", in R.K. Abhay, D.N. Pandey and S. Rani (Eds.) *Constraints in Achieving Sustainability of India*. New Delhi: TERI Press, pp. 15-27. (First author).

2023 : "Principles and challenges of good governance in achieving sustainability of India", in R.K. Abhay, D.N. Pandey and S. Rani (eds.) *Constraints in Achieving Sustainability of India*. New Delhi: TERI Press, pp. 251-260. (with Latambika Sapawat).

2023 : "Spatio-temporal Patterns of Covid-19: A District-level Analysis of Kerala, India, 2020-2021" in Esra Ozdenerol (Ed.) *The Role of GIS in COVID-19 Management and Control*, Boca Raton (Florida): CRC Press. 87-110.(with Madhuri Sharma and Shimod K.).

2021 : "Resource management, sustainable development and governance: Introduction and overview", in B. Thakur, R.R. Thakur, S. Chattopadhyay and R.K. Abhay (eds) *Resource Management, Sustainable Development and Governance: Indian and International Perspectives*, ISBN: 978-3-030-85838-4, Switzerland AG: Springer Nature, 3-12 (Co-author).

2021 : "Bruce Mitchell: Professional Career and Contributions", in B. Thakur, R.R. Thakur, S.

Chattopadhyay and R.K. Abhay (eds) Resource Management, Sustainable Development and Governance: Indian and International Perspectives, ISBN: 978-3-030-85838-4, Switzerland AG: Springer Nature, 13-23. (Co-author)

2021 : “Land degradation and agricultural sustainability in Kendujhar district, Odisha”, in B. Thakur, R.R. Thakur, S. Chattopadhyay and R.K. Abhay (eds) Resource Management, Sustainable Development and Governance: Indian and International Perspectives, ISBN: 978-3-030-85838-4, Switzerland AG: Springer Nature, 365-376. (Co-author)

2021 : “Sustainable resource governance: Lessons for the future”, in B. Thakur, R.R. Thakur, S. Chattopadhyay and R.K. Abhay (eds) Resource Management, Sustainable Development and Governance: Indian and International Perspectives, ISBN: 978-3-030-85838-4, Switzerland AG: Springer Nature, 3-12. (Co-author)

2020 : “Analysing the relationship between yield of rice and fertilizer consumption for food security in Odisha”, in P. Patra, R. Devi, and G. Sikka (eds) Smart Agriculture: Ancient Wisdom and Modern Technology, New Delhi and Jaipur: Rawat Publications, 164-172. (Co-Author)

BOOK CHAPTERS IN UNIVERSITY TEXTBOOK

2021: “Solid and Liquid Waste” in Block 3: Environmental Problems and Management for the Core Course on Environmental Geography, to be offered in the B.Sc. Programme in Geography of IGNOU as per UGC-CBCS, BGGCT-135,149-162.

2021 : “Biodiversity Loss”, in Block 3: Environmental Problems and Management for the Core Course on Environmental Geography, to be offered in the B.Sc. Programme in Geography of IGNOU as per UGC-CBCS, BGGCT-135, 163-177.

Conference Organization/ Presentations(From 1st July 2018 onwards)

INVITED LECTURES AS RESOURCE PERSON

- 2023 : Delivered invited two lectures on “**Application of Geographical Information System in Social Science Research**”, at Research Methodology Course in Social Sciences organised by Council for Social Development, Lodhi Estate, New Delhi, 17 April 2023.
- 2022 : Delivered invited talk on “**Appraisal of Urban Growth and Status of Housing Quality in NCT-Delhi**”, in the International Conference on Geoinformatics for Biodiversity Conservation Planning organised by Centre for Climate Change and Water Research, Suresh Gyan Vihar University, Jaipur on 14 October, 2022.
- 2022 : Delivered invited lecture on “**Agriculture & Sustainability of India**”, in the National Level Webinar on Contemporary Research Perspectives in Geography organised by South Asian Institute for Advanced Research and Development (SAIARD) on 19 June, 2022.
- 2021 : Delivered invited lecture on “**Resilience, Role of Farmers and Agricultural Sustainability**”, at One Day Multidisciplinary International e-Conference on Sustainable Development Goals & Development: Initiatives, Execution and Challenges organised by Gramin (ACS)

- Mahavidyalaya Vasantnagar Kotgyal, Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra, 10 June.
- 2021 : Delivered invited lecture on **“Doing Fieldwork in Geography”**, at One Week Online Workshop on 'Research Methodology in Social Sciences: Conceptual and Methodological Intervention', organised by Department of Geography, DDU Gorakhpur University, Uttar Pradesh, 30 June.
- 2020 : Delivered invited lecture on **“Learning Geotagging, QGIS and Its Applications”**, at Faculty Development Programme organised by Janardan Rai Nagar Rajasthan Vidyapeeth, Rajasthan and Shivaji College, University of Delhi, 8-14 June.
- 2019 : Delivered invited lecture-cum-practical's on **“Geo-tagging: Integrating Mobiles and QGIS for Social Resource Mapping in Urban Areas”**, at Winter School in Geospatial Technologies on Urban Planning using Geospatial Technologies (Level 2) during 2nd -23rd December 2019 at the Department of Geography, Faculty of Science, Aligarh Muslim University, Aligarh, 16 December.
- 2019 : Delivered invited lecture-cum-practical's on **“QGIS, Data Visualisation and Data Analysis”**, at Training Course on Research Methodology at Council for Social Development, Lodhi Estate, New Delhi, 17-18 December.
- 2019 : Delivered invited lecture on **“Geo-tagging: Integrating Mobiles and QGIS”**, at Training Programme at Council for Social Development, Lodhi Estate, New Delhi, 3 June.
- 2019 : Delivered invited lecture on **“Inclusive development: Issues of Health, Education and Climate Change”**, at Aditi Mahavidyalaya, University of Delhi, Bawana, Delhi, 16 April.
- 2018 : Delivered invited lecture on **“Application of GIS in Social Science Research”**, at Council for Social Development, Lodhi Estate, New Delhi, 19 December.
- 2018 : Delivered lecture on **“Measuring land degradation and its impact on benefits from agricultural production in the northern Highlands of Odisha, India”**, at the National Seminar on *Perspectives on Land, Water and Population: Issues and Challenges* organized by Department of Geography, Institute of Science, Banaras Hindu University, Varanasi, 26-28 February, 2018 (Key Speaker).
- 2018 : Delivered invited lecture on **“Associations and Journals of Geography in India v.2”**, at Geo Research Forum, Department of Geography, Delhi School of Economics, University of Delhi, Delhi, 12 January.

PAPER PRESENTED IN INTERNATIONAL CONFERENCES

1. Presented a paper on **“Urbanization and housing quality in Delhi: A study of spatio-temporal disparities”**, at the **International Geographical Union Thematic International Conference** on **“Sustainability, Future Earth and Humanities: Opportunities and Challenges”**, organized by Department of Geography, Central University of Haryana, Mahendergarh, 24-25 November 2022.
2. Presented a paper on **“Landslides susceptibility investigations in the Kashmir Himalaya”**, at the **International Geographical Union Thematic International Conference** on **“Sustainability, Future Earth and Humanities: Opportunities and Challenges”**, organized by Department of Geography, Central University of Haryana, Mahendergarh, 24-25 November 2022.
3. Presented a paper on **“Spatio-temporal patterns of housing shortage in urban India: A case study of NCT-Delhi”**, at the **21st Association of Punjab Geographers International E-Conference 2021**, on Agriculture, Food Security, Health and Wellbeing organized by Department of Geography, Kurukshetra University, Kurukshetra, 30-31 December, 2021.
4. Presented a paper on **“Correlates between Regional Disparities, Agricultural Development and Rural Sustainability in Siddharthnagar District, Uttar Pradesh”**, at the **IGU India International**

Conference (Virtual) 2020, on Global to Local Sustainability and Future Earth organized by Department of Geography, MLSU, Udaipur, 18-20 December, 2020.

5. Presented a paper on **“Measuring Intra-District Regional Disparities in the Agricultural Development of Siddharthnagar District, Uttar Pradesh”**, at the **XVth DGSi International Geography Online Conference on Climate Change, Disasters and Sustainable Livelihood** organized by Department of Geography, University of Allahabad, Prayagraj, 26-28 November, 2020.
6. Presented a paper on **“Agricultural Sustainability through Resilience in Villages of Northern Highlands of Odisha”**, at the **International Conference on Environmental Ethics, Resource Management and Regional Development** organized by Department of PG Studies Geography, Dr. BR Ambedkar Government College, Sri Ganganagar, Rajasthan, 29-30 November, 2019.
7. Presented a paper on **“Evaluating the Status of Land Management Practices Adopted by Farmers in the Northern Highlands of Odisha, India”**, at the **International Geographical Union Thematic Conference on Practical Geography and XXI Century Challenges** organized by Institute of Geography, Russian Academy of Sciences, Moscow, RUSSIA, 4-6 June, 2018.
8. Presented a paper on **“Paradigm Shifts in Approaching Floods in India”**, at the **International Conference on Mass Disaster and Emergency Management** organized by NTFDM and Dyal Singh College, University of Delhi, Delhi, 20-21 April, 2018.

PAPER PRESENTED IN NATIONAL CONFERENCES

1. Presented a paper on **“Analysis of resilience of agricultural land using a factor analytic approach in Siddharthnagar district, Uttar Pradesh”**, at the National Conference (Online) on *Population, Environment, Health, Sustainable Development Goals and Appropriate Technologies: Post Covid-19 Scenarios’ 43rd IGC-National Association of Geographers, India*, organized by Department of Geography, Institute of Science, Banaras Hindu University, Varanasi, 28-30 October, 2021.
2. Presented a paper on **“Land susceptibility to degradation and rural sustainability in Siddharthnagar district, Uttar Pradesh: A Multi-Criteria Analysis”**, at the National Conference (Online) on *Climate Change and Pathways to Self Reliant India: Opportunity and Challenges for Sustainable Development* organized by Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi, 15-16 March, 2021.
3. Presented a paper on **“Land Degradation, Agricultural Benefits and Farmers Resilience in Selected Villages of Odisha”**, at the National Seminar on *Spatial Dimensions of Environmental Problems and Natural Resource Law* organized by the Shaheed Bhagat Singh College, University of Delhi, Delhi, 3-4 September, 2019 (Best Paper Award).
4. Presented a paper on **“Traditional Methods of Water Management and their Significance for Future Sustainability of India”**, at the 40th Indian Geographers Meet and National Seminar on *Water, Sustainability, Livelihood and Climate Change* organized by the Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi, 14-16 March, 2019.
5. Presented a paper on **“Measuring land degradation and its impact on benefits from agricultural production in the northern Highlands of Odisha, India”**, at the National Seminar on *Perspectives on Land, Water and Population: Issues and Challenges* organized by Department of Geography, Institute of Science, Banaras Hindu University, Varanasi, 26-28 February, 2018 (Key Speaker).

Research Projects (Major Grants/Research Collaboration) (From 1st July 2018 onwards)
<ul style="list-style-type: none"> • 2019-21: Agricultural Development, Land Degradation and Rural Sustainability in Border Areas of Uttar Pradesh: A Case Study of Siddharthnagar District, Sponsored by ICSSR under IMPRESS Scheme under domain Agriculture and Rural Development (Submitted in August 2021). •
Awards, Fellowships and Distinctions (From 1st July 2018 onwards)
<ul style="list-style-type: none"> • Associate-ship at the Indian Institute of Advanced Study, Shimla under the UGC Inter-University Centre for Humanities and Social Sciences. Completed First Spell in Sept. 2022. • Best Paper Award for a paper presentation in National Conference on 'Spatial Dimensions of Environmental Problems and Natural Resource Law' in their respective sessions organized by Shaheed Bhagat Singh College, University of Delhi during 3-4 September 2019.
Association With Professional Bodies
<ol style="list-style-type: none"> 1. Indian National Cartographic Association (INCA, Hyderabad), (Life Member: 2908) (Since 2018) 2. The Association of Punjab Geographers, (APG, Patiala), (Life Member: 437). (Since 2013) 3. World Wide Fund (WWF) Supporter, (ID-WWF-2013-00018). (2013-14) 4. Geographical Society of India (GSI, Calcutta), (Life Member: A/L-15). (Since 2012). 5. Institute of Indian Geographers (IIG, Pune), (Life Member: 813). (Since 2011). 6. The Association for Geographical Studies (AGS, Delhi), (Life Member: 187). (Since 2008). 7. National Association of Geographers, India (NAGI, Delhi), (Life Member: 1670). Since 2007)
Other Activities like MOOCs/ Patents etc. (From 1st July 2018 onwards)
<ul style="list-style-type: none"> • Reviewer of Journal: Water Resource Management, Springer (Since 2017), Geography, Environment and Sustainability (2021) • Member Editorial Board: Member, The Association for Geographical Studies, Delhi, 2017-20. • Students Mentoring: Mentored a Paper on 'Evaluating the role of Delhi Metro in Everyday Geography' in Geographer's Youth Conclave organized by the Department of Geography, Shaheed Bhagat Singh College, University of Delhi, held on 29-30 March 2019.

Dr. R.K. Abhay
Signature of Faculty Member