


## Faculty Details Proforma for DU Web-site



Title	Dr.	First Name	<b>Shikha</b>	Last Name	<b>Yadav</b>	Photograph
Designation		<b>Assistant Professor</b>				
Address		<b>Department of Geography, Miranda House, University of Delhi, Delhi-110007, India</b>				
Phone No. Office		<b>011-27666983</b>				
Residence		<b>011-43536683</b>				
Mobile		<b>9911689132</b>				
Email		<a href="mailto:shikhayadav356@gmail.com">shikhayadav356@gmail.com</a> , <a href="mailto:shikha.yadav@mirandahouse.ac.in">shikha.yadav@mirandahouse.ac.in</a>				
Web-Page		.....				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		<b>Department of Geography, Delhi School of Economics, University of Delhi.</b> <b>Topic- "Wastewater Management for Urban Sustainability: A Case Study of Delhi"</b>			<b>Awarded in June, 2022</b>	
M.Phil.		<b>N.A.</b>				
M.Sc. (Geography)		<b>Department of Geography, Kurukshetra University, Haryana, India</b>			<b>2012</b>	
Graduation Geography(H)		<b>Dr. B.R. Ambedkar College, University of Delhi, Delhi</b>			<b>2006</b>	

Any Other Qualification	University Grants Commission –National Eligibility Test	2013
P. G. Diploma in Remote Sensing & G.I.S.	I.G.N.O.U., New Delhi	2017

#### Career Profile

Organisation/Institution	Designation	Duration
Miranda House, University of Delhi.	Assistant Professor, Department of Geography	03/07/2023 (F/N) - till date.
Aditi Mahavidyalaya, University of Delhi	Assistant Professor	20/07/2015 -03/07/2023
SGPG College, DDU Gorakhpur University, Gorakhpur, U.P.	Lecturer	01/07/2012 – 30/06/2015

#### Administrative Assignments

Appointed as External member of the Board of Studies, for the academic session 2024-25, at Nirwan University Jaipur, Rajasthan.

Appointed as External member of the Board of Studies, for the academic session 2024-25, at Shri KushalDas University, Hanumangarh, Rajasthan.

Appointed as External member of the Board of Studies, for the academic session 2024-25 at LORDS University, Alwar, Rajasthan.

Appointed as External member of the Board of Studies (Curriculum & Research Board), for the academic session September,2024- September, 2027 at Durga Soren University, Deoghar, Jharkhand.

Organised a Field trip to Manali, Himachal Pradesh with students of BA Prog. Between 14-18 October,2023

Member of organising committee of G20@India, Making India Count-Role of Youth, Academia and Intellectuals on 26 July,2024 at Miranda House, University of Delhi.

Member of organising committee of New India Debates-The Era of Women led Development, on 29 September 2024 at Miranda House, University of Delhi.

Delegate of Urban Studies and Research Centre, at Miranda House, University of Delhi, between 27-28 February,2024 Organised GEOFEST-GLOBE, dated 20 February,2024, at Miranda House, University of Delhi

## **MIRANDA HOUSE**

Student Union Advisor Geography Department,2023-24.

Convener of Adventure Club,2023-25.

Member of Gardening Committee,2023-25.

## **ADITI MAHAVIDYALAYA**

Member of NAAC core Committee in May, 2023 at Aditi Mahavidyalaya, University of Delhi

Organised a Seminar on the topic MILLETS: A Gateway to Health and Food Security inspired by UN International Year of Millets, at Aditi Mahavidyalaya, University of Delhi, on 10<sup>th</sup> February ,2023.

Organised a Webinar “Role of MSME in Creative Economy for Sustainable Development since Independence” on 3<sup>rd</sup> September 2021, Aditi Mahavidyalaya, University of Delhi.

Co-Coordinator of NSS Committee of Aditi Mahavidyalaya since year 2019.

Member, Library Committee, Department of Geography, in year 2018-19.

Editing Member of Geography Department Magazine ‘Dharitri’ during 2016-17 and 2017-18.

Member of Enabling Unit, Aditi Mahavidyalaya, University of Delhi during admission in year 2018.

Member of Examination Committee in year 2017-18.

Organising Member of UGC Funded National Conference on “Climate Change and Disaster Risk Reduction in Urban System” at Aditi Mahavidyalaya, University of Delhi, 26th March, 2018.

<p><b>Organising Member of UGC Funded National Conference on ‘Recent Advances in Chemical &amp; Sciences towards Green &amp; Sustainable Environment: Swachh Bharat Abhiyan Perspective’, 10-11 October, 2017.</b></p> <p><b>Member of Time Table Committee in year 2017-18.</b></p> <p><b>Member of Annual Day Committee in year 2017.</b></p> <p><b>Member of Gandhi Study Circle in year 2017.</b></p> <p><b>Member of Alumni Committee in year 2017.</b></p> <p><b>Member of Unnat Bharat Abhiyan in year 2016.</b></p> <p><b>Organising Member of National Workshop on “Smart Agriculture: A Blend of Ancient Wisdom and Modern Technology” at Aditi Mahavidyalaya, University of Delhi, 29- 31 March, 2016.</b></p> <p><b>Member of Internal Assessment Committee in year 2015-16.</b></p> <p><b>Member of Student Union Advisory Committee in year 2016-17.</b></p> <p><b>Member of Cultural Committee in year 2015-16.</b></p>
<b>Areas of Interest / Specialization</b>
<b>Agriculture Geography, Population Geography, Sustainable development, Contemporary Environmental Issues, Remote Sensing &amp; G.I.S.</b>
<b>Subjects Taught</b>
<b>Sustainable development, Agriculture Geography, Population Geography, Environmental Geography, World Economic Geography, Statistical Methods in Geography, Field Techniques &amp; Surveying methods.</b>
<b>Research Guidance</b>
<b>Research guide of two scholars from Geography Department, University of Delhi</b>
<b>Publications Profile</b>
<p><b>1. Books/ Authored and Chapters in Book</b></p> <ul style="list-style-type: none"> <li><b>Development of Education Sector in U.P. Trends and Patterns, Rawat Prakashan, Delhi, 2018. (ISBN No-978-93-86687-62-3)</b></li> </ul>

- **Population and Reproductive Health Scenario in U.P. Issues and Challenges**, Rawat Prakashan, Delhi, in 2018. (ISBN No-978-93-86687-61-6).
- **Soil Health Card Scheme – Effects, SWOT and Status: An Analytical Overview of Bihar**, Humanities and Sustainability from Glocal Perspectives Towards Future Earth - Proceedings of the IGU Thematic Conference 2022, India, ISBN:978-981-96-0380-0. <https://link.springer.com/book/9789819603800>.
- **Prospects of Tourism Sector in Assam to Achieve Sustainable Development Goals**, Advances in Geographical and Environmental Sciences, Subhash Anand et al. (Eds): Sustainable Development Goals in Northeast India, En, (Chapter 25), 978-981-19-6477-0, 517204\_1, 2023  
[https://link.springer.com/chapter/10.1007/978-981-19-6477-0\\_25](https://link.springer.com/chapter/10.1007/978-981-19-6477-0_25)
- **Efficiency Assessment of Sewage Treatment Plants for Treating Wastewater: A Case Study of Narela Sewage Treatment Plant Chapter 5**, in Dr R.K. Mishra, Prof. R.B. Singh, Dr Anupama Dubey (Eds.) Sustainable Climate Action and Water Management, pp.61-72. Springer International Publishing, Singapore, 2021.ISBN 978-981-15-8236-3(Print) & 978-981-15-8237-0(Online) accessible at  
<https://link.springer.com/chapter/10.1007/978-981-15-8237-05>
- **Sources of bio-waste and their application in Agriculture**, Sustainable Agriculture through Bio-composts (Book), published by ICAR- Indian Agriculture Research Institute, New Delhi, pp. 11-17, ISBN No-978-93-83168-34-7.2018  
<https://www.kiet.edu/uploads/naac/3.3.3%20DVV%20Session%202017-18.pdf>
- **Elucidating Revival Measures to Extenuate Expanse of Fallow Lands and Climate Change: An Empirical Analysis of Jharkhand**, The Author(s), under exclusive license to Springer Nature Switzerland AG (2023) C. B. Pande et al. (eds.), Climate Change Impacts in India, Earth and Environmental Sciences Library, [https://doi.org/10.1007/978-3-031-42056-6\\_13](https://doi.org/10.1007/978-3-031-42056-6_13).

- Editor of **Agricultural Finance & Cooperation** book published by NIPA, GENX Electronic Resources & Solutions P.LTD. New Delhi, ISBN No-978-93-58870-84-8. 2023  
<https://www.nipabooks.com/info/9789358870848/agricultural-finance-cooperation>

## 2. Research Papers published in Referred/ Peer Reviewed Journals:

- **Organic Agriculture in Peri- Urban area of Delhi: A Case study of Organic Acre, Bankner Village,** Agricultural Situation in India, monthly Journal, 2019, Vol.76, pp.16-24, ISSN No 0002- 1679.  
[https://desagri.gov.in/wp-content/uploads/2022/10/ASI\\_July-2019.pdf](https://desagri.gov.in/wp-content/uploads/2022/10/ASI_July-2019.pdf)
- **Green Revolution and Food Security in India: A Review,** National Geographical Journal of India, An International Peer Reviewed Journal Science, September 2019, Vol. 65, No-3, pp. 311-322 ISSN No- 0027-9374.  
<https://C:/Users/hp/Downloads/GreenRevNGJISEPT2019.pdf>
- **Climate Change and Indian Agriculture in Present Scenario,** The Horizon-A Journal of Social Science, Peer reviewed, Vol-XII, January 2021, pp 43-58, ISSN no - 0975-5535.
- **Assessment of Techno-Economic Aspects of Sewage Treatment Plants in NCT of Delhi,** Anvesak- A biannual journal, vol.51 No.2(XI), July to December, 2021, UGC Care group-1, Impact Factor: 6.20, ISSN: 0378-4568.
- **Assessment of Reusing Wastewater for Sustainable Agriculture Irrigation System in Delhi, India,** AIP Conference proceedings 2417,070003(2021); accessible at <http://doi.org/10.1063/5.0072736> published online: 19 October 2021.
- **Background and Effects of NREGA on Potential Benefits, Rural –Urban Migration and Food Security Vis-a-Vis Present Status: Empirical Analysis of Bihar,** International Journal of Agriculture

Economics, Science Publishing Group(SPG), USA ; Vol.- 7(3), May 2022; pp 129-139, ISSN: 2575-3851(Print); ISSN: 2575-3843(Online) accessible at <https://www.sciencepg.com/journal/paperinfo?journalid=232&doi=10.11648/j.ijae.20220703.14>

- **Measuring Economic Uncertainty in Syria: An Approach to the Stochastic Volatility Model**, Indian Journal of Economics and Development, Indexed in Scopus and Clarivate Analytics (ESCI) of Web of Science, NAAS Score: 5.15 ; Vol. 18 No.2, June 2022 ,ISSN no. 2277-5412(Print), ISSN 2322-0430 (Online) accessible at <http://soed.in/article/532>.
- **Modelling and Forecasting of Maize Production in South Asian Countries**, Economic Affairs, Vol. 67, No. 09, pp. 01-14, September 2022, Print ISSN: 0424-2513 & Online ISSN: 0976-4666. [https://www.researchgate.net/publication/364327273\\_Modelling\\_and\\_Forecasting\\_of\\_Maize\\_Production\\_in\\_South\\_Asian\\_Countries/link](https://www.researchgate.net/publication/364327273_Modelling_and_Forecasting_of_Maize_Production_in_South_Asian_Countries/link)
- **A Comparative Study between (ARIMA - ETS) Models to Forecast Wheat Production and its Importance's in Nutritional Security**, Journal of Agriculture, Biology and Applied Statistics Vol. 1, No. 1, 2022, pp. 25-37, June 2022, accessible at [URL : www.arfjournals.com](http://www.arfjournals.com)
- **Modelling and Forecasting of Producer Price Index (PPI) of Cheese Manufacturing Industries**, Journal of Agriculture, Biology and Applied Statistics Vol. 1, No. 1, 2022, pp. 39-49, June 2022. [URL: www.arfjournals.com](http://www.arfjournals.com)
- **Modelling and Forecasting of Pulses Production in Madhya Pradesh**, Agricultural Situation in India, monthly Journal,2022, Vol.79, pp.13-26, ISSN No 0002- 1679 [https://desagri.gov.in/wp-content/uploads/2022/10/ASI\\_Aug-2022.pdf](https://desagri.gov.in/wp-content/uploads/2022/10/ASI_Aug-2022.pdf)
- **Source of Growth for Wheat in Uttar Pradesh: Decomposition Analysis**, DEC ,2022 [DOI: https://doi.org/10.35716/IJED/22172](https://doi.org/10.35716/IJED/22172)
- **Modelling and forecasting of electricity consumption used in agriculture purpose in India**, Journal of Crop and Weed, 18(3): 200-205 (2022) ISSN- O: 2349 9400; P: 0974 6315, pp.201-205. [DOI: https://doi.org/10.22271/09746315.2022.v18.i3.1636](https://doi.org/10.22271/09746315.2022.v18.i3.1636)
- **Modelling and Analysing the Dynamic Impact of Financial Development on Economic Growth in Syria**, published in Economic Affairs · December 2022. [DOI: 10.46852/0424-2513.5.2022.24](https://doi.org/10.46852/0424-2513.5.2022.24)

- **Effect of Seed Bio-priming with Cold Tolerant *Pseudomonas fluorescents* and Soil Application of Cow Urine on Germination, growth and Nutrient Uptake in Pea**, Journal of Agriculture, Biology and Applied Statistics, Vol. 2, No. 1, 2023, pp. 1-9© ARF India. [DOI:10.47509/JABAS.2023.v02i01.01](https://doi.org/10.47509/JABAS.2023.v02i01.01)
  - **Validation of Growth Rate Estimate Using Spline Regression Technique for Green Gram Production in Odisha** ( DEC 2023). Journal of Economics and Development;18(4):17-32.
  - **Forecasting Potato Production in Major South Asian Countries: a Comparative Study of Machine Learning and Time Series Models**, Potato Research, <https://doi.org/10.1007/s11540-023-09683-x>(Springer, DEC 2023).
  - **Marketing performance and factors influencing farmers choice for agricultural output marketing channels: the case of garden pea (*Pisum sativum*) in India** (2023). *Front. Sustain. Food Syst.* 7:1270121. doi: 10.3389/fsufs.2023.1270121.
- ]
- **Modelling and Forecasting of Lentil Production in India and its Instability**, April 2023, Journal of Animal and Plant Sciences 33(4):2023. [DOI:10.36899/JAPS.2023.4.0675](https://doi.org/10.36899/JAPS.2023.4.0675)
  - **Factors Determining Labour Absorption in Agriculture in Different Agro-Climatic Regions of Rajasthan**, Economic Affairs, Vol. 68, No. 02, pp. 1001-1008, June 2023, [DOI: 10.46852/0424-2513.2.2023.3](https://doi.org/10.46852/0424-2513.2.2023.3)
  - **Crop-weather relationship of finger millet varieties under varying environments at Keonjhar, Odisha**, *Journal of Agrometeorology*, ISSN : 0972-1665 (print), 2583-2980 (online), Vol. No. 27 (2) :0117,(June-2024),<https://doi.org/10.54386/jam.v26i2.2293>  
<https://journal.agrimetassociation.org/index.php/jam>



- **Decoding Potato Power: A Global Forecast of Production with Machine Learning and State-of-the-Art Techniques** (2024). *Potato Res.* <https://doi.org/10.1007/s11540-024-09705-4> (Springer).
- **Modeling and forecasting rainfall patterns in India: a time series analysis with XGBoost algorithm.** *Environ Earth Sci* 83, 163 (2024). <https://doi.org/10.1007/s12665-024-11481-w> (Springer).
- **Effect of Sowing Dates and Seed Priming on Agrometeorological Indices and Soil Moisture Regimes of Chickpea in North Central Plateau Zone NCPZ of Odisha.** *Legume Research.* doi: 10.18805/LR-5223 (2024).
- **Comparative Analysis of Sugarcane Production for South East Asia Region** (2024). *Sugar Tech* 26, 264–273 (2024). <https://doi.org/10.1007/s12355-023-01346-0> (Springer).
- **Assessment of Municipal and Industrial Wastewater Impact on Yamuna River Water Quality in Delhi,** April 2024, BIO Web of Conferences 97(2):00124, <https://doi.org/10.1051/bioconf/20249700124>
- **A Random Forest-Convolutional Neural Network Deep Learning Model for Predicting the Wholesale Price Index of Potato in India,** May 2024, *European Potato Journal*, DOI: 10.1007/s11540-024-09736-x <https://link.springer.com/article/10.1007/s11540-024-09736-x>
- **Forecasting Monthly Export Price of Sugarcane in India Using Sarima Modelling,** April 2024, BIO Web of Conferences 97(1):00142, DOI: 10.1051/bioconf/20249700142.
- **Modelling and Forecasting of Coconut Area, Production, and Productivity Using a Time Series Model,** April 2024, BIO Web of Conferences 97(1):00113, DOI: 10.1051/bioconf/20249700113.

- **Yield Forecast of Sugarcane Using Two Different Techniques in Discriminant Function Analysis**, April 2024, BIO Web of Conferences 97(3):00064, DOI: [10.1051/bioconf/20249700064](https://doi.org/10.1051/bioconf/20249700064).
- **Applications of Deep Learning Models for Forecasting and Modelling Rainwater in Moscow**, April 2024, BIO Web of Conferences 97(1):00126, DOI: [10.1051/bioconf/20249700126](https://doi.org/10.1051/bioconf/20249700126).
- **State of the art in energy consumption using deep learning models**, June 2024, AIP Advances 14, 065306 (2024); doi: 10.1063/5.0213366
- **Modeling and Forecasting of Russian Federation Cheese Production and Total Cheese Used**, Thailand Statistician, October 2024; 22(4): 894-908 <http://statassoc.or.th>

### 3. Research Papers in Conference:

- **Participated and presented a paper entitled “A Comparative Analysis of Time Series and Machine Learning Models in Rainfall Patterns in Odisha, India”** during an International Seminar on “VIKSIT BHARAT AND COLLECTIVE SELF RELIANT AFRICA: A JOURNEY TOGETHER' organized by the Department of African Studies, University of Delhi, on 29 November, 2024.
- **Participated and presented a paper entitled “An Analysis of Comparative Rice Production Forecasting in Rewa District, Madhya Pradesh, India, Using ARIMA and ARIMAX Models**, during an International Conference on “Urban Development Missions, Restructuring of Spaces and Emergence of New Urbanism, Organised by Department of Geography, Shaheed Bhagat Singh College, University of Delhi on November 15-16, 2024.

- **Participated and presented a paper entitled “Advanced Time Series and Machine Learning Model for Forecasting Fish Production in India”** during an International Seminar on “Envisaging Bharat as Voice of Global South: Revisiting COP28, Organised by Department of Geography, IP College, Delhi University, on 27-28 August 2024.
  - **Participated and Presented a poster entitled “Socioeconomics of sorghum growers in western Krishna Basin of Andhra Pradesh State, India”** at the International Conference on Plant Health Management ICPHM-2023 Innovation & Sustainability held during November,15-18, 2023 at Hyderabad.
  - Presented a research paper in International Conference on Recent Advancement in Science, Engineering, Management & Humanities, titled **Geography of Agriculture and Food Security in NCT of Delhi** Organized by Govt College, Degana, Nagaur, Rajasthan held on December 18,2021
- Presented a research paper in Virtual International Conference on **Emerging Trends in Engineering, Science, Management and Commerce** Organized by Madhyanchal Professional University, Bhopal, entitled **“Urban Agriculture as a new Potential for Development of Urban Green Spaces in Delhi**, held on May 21,2021
- Presented a research paper in **1<sup>st</sup> World Congress on Optimization and Automation Techniques in Engineering and Management**, titled, **Assessment of Re-using wastewater for Sustainable Agriculture Irrigation System in Delhi, India**, in WCOATEM-20 held on 19-21 October, 2020 Organized by G H RAISONI University, Amravati, Maharashtra, India.
  - Presented a research paper in International Conference on Recent trends in Science, Humanities, Engineering Organized by Institute of teacher Education, Modi Nagar U.P, entitled **Resilient Agriculture and Livelihood: Methods and Application**, held on September 27, 2020

- Participated in INTERNATIONAL WEB-CONFERENCE COVID-19 PANDEMIC FROM THE EYES OF GEOGRAPHY: **GLOBAL, NATIONAL AND REGIONAL PERSPECTIVES** September 11-12, 2020 Organized by Department of Geography, Guwahati University, Assam, India in Association with Commonwealth Geographical Bureau.
- Participated in International conference on **“Water Resources, Climate Change and Sustainability”** sponsored by Indian Council of Social Science Research and organized by Institute of Public Enterprise, Osmania University, Hyderabad, India during September 27-28, 2019 and presented a paper titled **“Efficiency Assessment of Sewage Treatment Plants for Treating Wastewater: A Case Study of Narela Sewage Treatment Plant”**.
- Panelist at **Water Management** Session in **3rd India Agricultural Outlook Forum, 2019** during **September 26-27, 2019** in New Delhi.
- **Community Perspectives on the Sustainable Management of Wastewater: A Case Study of Delhi** published in proceedings, **Emerging Research Trends in Social Sciences**, International Conference on **Emerging Paradigms in Social Science Research** at Bhagat Phool Singh Mahila Vishwavidyalaya, Sonapat, Haryana; 25-26 March, 2019, pp.66-73, ISBN No.978-93-89000-19-1.
- Presented an oral paper on **Gandhi’s Agrarian heritage: Practicing organic farming at Banker village of Delhi for environment sustainability** on 6 March 2019 at Gandhi Bhawan, University of Delhi.
- The 12<sup>th</sup> International Geographical Union (IGU) India, Conference on **Climate Change, Natural Disasters and Sustainable Development** at Govt. Postgraduate College, Sector-1, Panchkula, Haryana, 22-24 February, 2019, Certificate Ref. ID.244/I//IGU/2019 and presented a paper on **Urban Wastewater Reuse in Delhi: The Future Prospects**.
- **Evaluation of Sewage Treatment and Management in Delhi: A Case Study of Rithala Sewage Treatment Plant** published in proceedings, **Water Crisis and Food Security**, International Conference

on **“Global Water Crisis – Agriculture & food security in the era of climate change”** at Aligarh Muslim University, Aligarh, U.P; 1-3 December, 2018, PP.149-167, ISBN No.978-81-928754-5-3.

- **Rapporteur** during the session **Public Policy for Food Security, Water Access and Sustainable Development** on 2 December, 2018 in International Conference on Global Water Crisis: Agriculture and Food Security in the era of climate change held in Department of Geography, Aligarh Muslim University during 1-3 December, 2018.
- **Assessment of Water Quality Status of River Yamuna, Delhi: Impact of Municipal and Industrial Wastewater** published in proceedings, **“Industrial Pollution, Water and Wastewater Treatment”** International Conference on Sustainable Solutions at Aligarh Muslim University, Aligarh, U.P; 10-11 November, 2018, pp.145-150, ISBN NO-978-93-88237-19-2.
- **Renewable Energy Scenario in India - Scope and Challenges** published in proceedings, **“Recent Advances in Chemical & Sciences towards Green & Sustainable Environment: Swachh Bharat Abhiyan Perspective”** at Aditi Mahavidyalaya, University of Delhi, May 2018, pp. 29-34. ISBN No: 978-93- 5311-552-4.

- UGC Funded National Conference on **“Climate Change and Disaster Risk Reduction in Urban System”** at Aditi Mahavidyalaya, University of Delhi on 26<sup>th</sup> March 2018 and delivered an oral presentation entitled **Flood Disaster Risk Management: A Case Study of Gorakhpur, U.P.**
- UGC Funded National Conference on **“Climate Change and Disaster Risk Reduction in Urban System”** at Aditi Mahavidyalaya, University of Delhi on 26<sup>th</sup> March 2018 and participated as Panelist entitled- **Disaster Management in Urban Areas.**

- International Conference on **Livable Cities: Transforming Sustainability and its Challenges**, Shaheed Bhagat Singh College, University of Delhi on 5-7 February 2018 and presented a paper entitled **Issues and Imperatives of a Smart City in India**.
- **India's Urbanisation: A Growing Concern for Sustainable Urban Development** published in proceedings, **Sustainable Development Goals in Asia**, The 14<sup>th</sup> International Asian Urbanisation Conference in Bangkok, Thailand, 11-13 January, 2018, pp.11, ISBN No-978-616-338-103-3.
- UGC-SAP-DRS III National Seminar on **Environment and Resource & Urban and Regional Planning**, Department of Geography, Delhi School of Economics, University of Delhi, 23-24 December, 2017, and presented a paper entitled **Climate Change in Contours of Indian Agriculture**.
- International Conference on **Aligning Education System to the Challenges of the future**, Department of Education, SPM College, University of Delhi, 8-10 November, 2017, and presented a paper entitled **Contours of Education in Digital India: Opportunities and Challenges**.
- UGC funded National Seminar on **"Recent Advances in Chemical & Sciences towards Green & Sustainable Environment: Swachh Bharat Abhiyan Perspective"**, at Aditi Mahavidyalaya, University of Delhi, 10-11 October 2017, and presented a paper entitled **Renewable Energy Scenario in India: Scope and Challenges**.
- UGC funded National Seminar on **"Recent Advances in Chemical & Sciences towards Green & Sustainable Environment: Swachh Bharat Abhiyan Perspective"**, at Aditi Mahavidyalaya, University of Delhi, 10-11 October 2017, and presented a poster entitled **Sources of Green Energy**.
- National Seminar on **Adaptation and Implementation of Paris Agreement: National Initiative towards Climate Change Mission**, Shaheed Bhagat Singh (E) College, University of Delhi, 21-22 April, 2017 and presented a paper entitled **Paris Agreement: India's Approach to Climate Change and Way Forward**.

- State level seminar on **Askot Arakot Abhiyan: A historical geography of Himalayan Communities**, Kamla Nehru College, University of Delhi, 3<sup>rd</sup> March, 2017.
- National Seminar on **Application of new techniques in modern Geography**, SBPG College, Varanasi, U.P., 11-12 February, 2017, and presented a paper entitled **New Geographies with New Technologies**.
- National Conference on **Energy, Environment & its Impact on Society**, K.N. Govt. PG College, Bhadohi, U.P., 19-20 January, 2017, and presented a paper entitled **Climate Smart Agriculture- Time to Embrace Best Practices**.
- 5<sup>TH</sup> National Conference on **Shifting Paradigms of Rural Development**, Govt. P.G. College, Pilibhit, M.J.P. Rohilkhand University, Bariley, U.P., 18-19 December, 2016, and presented a paper entitled **India Shining: Emerging Trends in Rural Development**.
- 4<sup>TH</sup> National Conference on **Future Higher Education Policy of India: Visions & Dimensions**, Govt. P.G. College, Pilibhit, M.J.P. Rohilkhand University, Bariley, U.P., 27-18 March, 2016, and presented a paper entitled **Gender Disparities in Access to Higher Education in India**.
- National Seminar on **Geospatial Technologies, Smart Cities and Sustainable Development**, Dr. B.R. Ambedkar College, University of Delhi, 11<sup>TH</sup> March, 2016.
- National Seminar on **Information Technology, Role & Possibilities of Rural Development and Employment**, SMPG College, Varanasi, U.P., 8-9 August, 2015, and presented a paper entitled **Approaches and Concepts of Rural Development**.

- National Seminar on **Population, Environment and Health in India**, Department of Geography, SBPG College, Varanasi, U.P., 28-29 March, 2015, and presented a paper entitled **Population Growth and Rural Livelihood Security in India**.
- National Seminar on **Right to Education** sponsored by UGC, Department of Education, Kuteer PG College, Jaunpur, U.P., 27-28 February, 2012.

#### Research Projects (Major Grants/Research Collaboration/Consultancy)

- Provided Consultancy for the project “Designing, Supply, Installation & Commissioning of Sewage Treatment Plant” funded by Govt. of Meghalaya, 2023-24.
- Provided Consultancy for the project “Designing, Supply, Installation & Commissioning of Sewage Treatment Plant” funded by Ministry of Health, Govt. of Meghalaya, 2023-24.
- Provided Consultancy for the project “Installation & Commissioning of Sewage Treatment Plant” funded by Govt. of Jharkhand, 2023-24.
- Presently working as Co-Principal Investigator in the External Funded project entitled on Bapatla Agro and Food Processing Cluster, Bapatla under **SFURTI Scheme**, Ministry of MSME, Govt. of India, **2023-2026**.
- Principal Investigator in an Undergraduate Research Project [UGRP] entitled: **A Feasibility Analysis of Centralised Vs Decentralized Wastewater Treatment Plants in Delhi**; funded by Aditi Mahavidyalaya University of Delhi, November 2022 to November 2023.
- Guided Project on **Rooftop rainwater harvesting (Campus Impact Challenge)**, sponsored by TERI University, New Delhi, 2016.
- Worked for **Solar Power Project**, sponsored by Solar Energy Corporation of India, under Ministry of New and Renewable Energy, Govt. of India, 2018.



#### E-Content/Policy Documents/MOOCs

- Developed a Policy documents on the Topic “Modeling and Forecasting of Pulse Production in Madhya Pradesh” for Ministry of Agriculture, Govt of India in 2022.
- Developed a Policy documents on the Topic “Organic Agriculture in Peri-Urban Area of Delhi: A Case Study of Organic Acre, Bankner Village” for Ministry of Agriculture, Govt. of India in 2022.
- Developed E-Content on the topic of “Impact of Land use changes on water resources” for YSR Horticultural, University Andhra Pradesh in 2024.
- Developed E-Content on the topic of “Impact of climate change on micro and macro environment” for YSR Horticultural, University Andhra Pradesh in 2024.
- Developed E-Content on the topic of “Agriculture Finance and Cooperation” for ICAR in 2024.
- Developed E-Content on the topic of “Environmental Sustainability” for Say Earth in 2024.
- Developed E-Content on the topic of “Environment, Social & Governance” for Sustainovate Climate Solutions Pvt.Ltd in 2024.
- Designed New Curricula and Courses “Physical Geography” Nirwan University Jaipur, Rajasthan in 2024.
- Designed New Curricula and Courses “Human Geography” Lords University, Rajasthan in 2024.
- Designed New Curricula and Courses “Agriculture Geography” Shri Khushal Das University, Rajasthan in 2024.
- Designed New Curricula and Courses “Agriculture Geography” Durga Soren University, Jharkhand in 2024.
- Designed New Curricula and Courses “Capacity Building Programme on Training of Trainers” for CBSE, Ministry of Education, Govt. of India in 2023.
- Developed Innovative Pedagogy “Toy Pedagogy in Geography” for NCERT, Ministry of Education, Govt. of India in 2022.

Association With Professional Bodies
<ul style="list-style-type: none"> <li>• Member of Editorial Board of South Asian Research Journal 2024-2026.</li> <li>• Member of Editorial Board of Journal of Science and Research Innovations 2023.</li> <li>• Joint Secretary of Research and Development Society, named “Society for Agricultural Research, Applied Technology and Environmental Sciences.” Since November, 2024.</li> <li>• Life Member, National Association of Geographers, India, Delhi.</li> <li>• Life member, National Geography Journal of India, Banaras, Uttar Pradesh</li> <li>• Life Member, Association for Geographical Studies, University of Delhi, India.</li> <li>• Life Member, International Association of Engineers (IAENG), Hong Kong.</li> <li>• Member of Tata Ratan Library, University of Delhi, India.</li> <li>• Committee member of a Capacity Building Programme on Training of Trainers(TOT), consisted by Central Board of Secondary Education(CBSE), an autonomous body under the Ministry of Human Resource Development, GOI.</li> </ul>
Other Activities/FDP/FIP

- Appointed as Internal Examiner of Digital Cartography BA(H) I Semester, held on \_\_\_\_\_ at Miranda House, University of Delhi.
- Attended 2<sup>nd</sup> International Training Programme on **Emerging Trends in Agricultural Technologies**, 17-26 November, 2024, organised offline by IIT, Kharagpur, West Bengal, India, fully funded by Ministry of Rural Development, Govt. of India and Agricultural Rural Development Organisation, United Nations (ARDO, UN).
- Paper Setting of Field techniques and Surveying Methods BA(P) V sem. LOCF, Geography Department, Delhi School of Economics, University of Delhi, November, 2024.
- Organised and participated in Face to Face training programme on **“Enabling Cities for Disaster Resilience to Achieve Sustainable Development”** from 08<sup>th</sup> July 2024 to 12<sup>th</sup> July 2024, Organised by Urban Studies and Research Centre(USRC), Miranda House, University of Delhi.
- External Examiner for the paper **Environment Impact and Risk Assessment**, BA(H) III Sem., held on 02, December 2023 at Miranda House, University of Delhi.
- Eight days **Faculty Induction Programme (FIP), NEP 2020 & Sensitisation Program organised by MM-TTP, UGC, CPDHE, University of Delhi between 18 June to 27 June 2024.**
- Eight days **Faculty Induction Programme (FIP), NEP 2020 & Sensitisation Program organised by MM-TTP, UGC, NIEPA, New Delhi between 01 May to 10 May 2024.**
- **Four weeks Faculty Induction Programme (FIP) /Orientation programme on “Faculty in Universities/Colleges/Institutes of Higher Education” from 22 November, 2023 -21 December, 2023 and obtained Grade A**, Organised by Teaching Learning Centre of Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

- **8 days Faculty Induction Programme (FIP) / on Pedagogical Imperatives for Creating Quality Learning Environment for All**, Capacity Building Programme for Teachers in Higher Education organised by Department of Education, University of Delhi, from 01 December,2023- 08 December, 2023.
- **7 Day's Faculty Development Program on Research Methodology, Bibliometric Analysis and Data Analysis Using R**, Dated 22-28 July, 2023, Organised by Society of Education, India; University of Agricultural Sciences, Raichur, Karnataka; European Laser Academy, Germany; Genome Biotech, Mathura.
- **National faculty development Programme** organised by Mahatma Hansraj Faculty Development Centre (A Centre of MoE, Govt. of India under PMMMNMTT Scheme) Hansraj College, University of Delhi, on the topic **Implementation of National Education Policy 2020 using Innovative Teaching Methods**, 30 May,2022 - 4 June, 2022.
- **BRICS STI FRAMEWORK PROGRAM – Training on Validation and Application of Remote Sensing Products in Ecology and Environment in BRICS countries**, Online May 24<sup>th</sup> -26<sup>th</sup>,2022, Organised by Chinese Academy of Sciences (AIRCAS); Land Satellite Remote Sensing Application Centre, MNR (LASAC); DSE, University of Delhi and Geophysical Centre of the Russian Academy of Sciences.
- **“Online Training on Manmade Disasters and Women as Responders since Independence”** from 23-25 February 2022, organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with Aditi Mahavidyalaya, University of Delhi.
- Online Training Course on **Basics of Decentralised Wastewater Treatment and Local Reuse** organised by School of Water and Waste, Centre of Science and Environment, from 01 to 26 June,2020.

- **Model Training Course on “Redesigning Water Conservation and Management Measures in Building Resilience in Farm Productivity”** sponsored by Directorate of Extension, Ministry of Agriculture & farmers welfare, Govt. of India, organized by Water Technology Centre, ICAR-Indian Agriculture Research Institute, New Delhi during October 8-15,2018.
- **National Faculty Development Programme** organised by the Centre for Ethics and Values, Ramanujam College, University of Delhi, 15-21 December,2017, secured A Grade in participation level Assessment.
- **Invited Lectures**
- **Delivered an invited lecture on** Research Ethics, Methodology and Scholarly writing in Academia during 7 Days Faculty Development Program on Research Methodology, Bibliometric Analysis and Data Analysis using R held on 22<sup>nd</sup> -28<sup>th</sup> July 2023, Organized by Society of Education, India, University of Agricultural Sciences, Raichur, Karnataka, India and European Laser Academy, Germany.
- **Delivered an invited lecture on** Survey methods, organized by CESDM, Miranda House, Delhi University, held on 04th October,2023.
- **Delivered an invited lecture on** Role of Agriculture in Environment and sustainable goals, organized by JNKVV College of Agriculture, Rewa, M.P. held on 14 November,2023.
- **Delivered an invited lecture on** Possibilities and Challenges in skill development for Indian Economy, organized by Pandit S. N. SHUKLA University, Sahdol M.P. held on 23 January,2024
- **Delivered an invited lecture on** Millets cultivation, production, productivity & value addition, organized by Society for Agriculture and rural integrated development (SARID), Andhra Pradesh, held on 17 March,2024
- **Delivered an invited lecture on** Geographical Distribution of Millet crops in India and Innovative Methods, organized by ICAR-Indian Institute of Millet Research Hyderabad Telengana, held on 16 March, 2024

- **Delivered an invited lecture on** Socio-economics of Millet Grovers in western Krishna Basin of Andhra Pradesh, organized by ICAR-Indian Institute of Millet Research Hyderabad Telengana, held on 14 June 2024
- **Delivered an invited lecture on** The role of Geography in Agricultural Development: Insight from Historical & Modern Perspective, organized by Department of Statistics, Dr YSR Horticulture University, Andhra Pradesh, held on 14 June, 2024
- **Delivered an invited lecture on** Wastewater Recycling-for Peri Urban Horticulture, Department of Statistics, Dr. YSR Horticulture University, Andhra Pradesh, held on 5 July,2024
- **Delivered an invited lecture on** Analysis of Statistical Techniques and methods in Contemporary research, organized by Department of Statistics, Dr.YSR Horticulture University, Andhra Pradesh, held on 08 August,2024.

#### **AWARDS:**

- Awarded by Ministry of Social Justice & Tribal Welfare, Govt. of Uttar Pradesh, based on research work on Education & Skill Development of Tribal Youth, 14, November,2024.
- Awarded by Indian Farmers Fertilisers Cooperative (IFFCO) PSU of Ministry of Chemical & Fertilisers, Govt. of India, on Environment Excellence, dated 25, October,2024.
- Awarded by National Projects Corporation Limited (NPCC), PSU Ministry of Jal Shakti, Govt. of India, on Wastewater Management,16 August,2023.
- Awarded by NITICON Ltd. Public Sector Undertaking (PSU), Govt. of India, on Skilling and Capacity Building, 16 August,2023.
- Awarded by Indraprastha Educational Research & Charitable Trust, for excellent work and outstanding performance in teaching field on 10th November,2019 at Indralok Auditorium, Narian Circle, Jaipur.