

CURRICULUM VITAE



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Google Scholar: <https://scholar.google.com/citations?user=inYLoT0AAAAJ&hl=en>

EXPERIENCE: Teaching & Research Experience of around **19 years** at UG & PG level.

- ✚ Experience as Associate Professor (Integral University.: 01/05/26 to till date)
- ✚ Experience as **Assistant Professor**. (Integral University.: 01/01/13 to 30/4/26)
- ✚ Experience as **Sr. Lecturer**. (Integral University: 17/7/12 to 31/12/12)
- ✚ Experience as **Lecturer**. (Azad Institute of Engineering & Technology: 11/8/08 to 17/7/12)
- ✚ Taught at Bundelkhand University, Jhansi. (During 2006-2008)

ACADEMIC QUALIFICATION:

| Examinations | Name of the Board/ University | Year of Passing | Division | Subject | % / Rank |
|---------------------|-------------------------------|-----------------|------------------|--|------------------------|
| PhD | Integral University | 2023 | - | Environmental Science | - |
| UGC –NET | UGC | 2009 | | Environmental Science | |
| M-Phil | Bundelkhand University | 2008 | I st | Environmental Science | 80.1% Topper |
| MSc | Bundelkhand University | 2006 | I st | Environmental Science | 78.8% Topper |
| BSc | Lucknow University | 2003 | II nd | Zoology, Botany, Chemistry | 55 % |
| Intermediate | UP Board | 2000 | I st | General Hindi, English, Physics, Chemistry, Biology | 63.20 % |
| High School | UP Board | 1998 | I st | Hindi, English, Biology, Mathematics: II, Science: II Social Science | 62.83 % |

AWARD & HONOURS:

- Awarded “*Prithvi Mitr Award 2025*” on 8 October 2025 by Prithvi Innovations for Extension Activities.
- “**Certificate of Appreciation**” by Wildlife Institute of India, Dehradun for organizing “Amrit Dhara- A festival of Rivers” on 27 February, 2025. (WII/RB/NMCG-NRCD/AD/2025).
- Coordinated National Student Paryavaran Competition (NSPC) in Integral University from 1 July 2025 to 21st August 2025 organized by UGC (Ministry of Education, Govt. of India) & Ministry of Environment, Forest & Climate Change for which 403 students and Integral University got Institutional Certificate.
- Nodal Officer of Integral University “*India Universities and Institutions Network for Disaster Risk Reduction (IUIINDRR-NIDM) of National Institute of Disaster Management, Ministry of Home affairs, Government of India*”.
- **Certificate of Excellence (grade (A+)) & was the top performer** (Awarded Medal) in Teaching Skill & communication Development Programme" (3rd July to 20 July 2019)
- “**Certificate of Excellence**” by IIT Bombay for being among the Top 320 performers from a total of 1571 certified participants in 4 Week Faculty Development workshop.
- Delivered a radio talk as expert at Gyan Vani on topic “Climate change & Agriculture” on 4th June 2018.
- Appreciation letter from IIT Bombay for my role in training & Certification of more than **15,000 students** & organizing more than **104 Workshops. (2018)**
- For spreading awareness and dissemination of Agriculture based Massive online courses (agMOOC), IIT Kanpur & Common Wealth of Learning Canada awarded me with an appreciation letter. **(2018)**
- Spoken Tutorial Project, IIT Bombay, government of India: **University Centre Coordinator of Integral University.**
- Resource Person of Spoken Tutorial Project, IIT Bombay.
- IIT Bombay Remote Centre Coordinator
- Awarded “**UGC -NET**” Certificate for the subject Environmental Sciences” in the year **2009.**
- Adjudged “**Best Faculty**” for subject “**Environment and Ecology**” for the year academic year **2008-2009** by Azad Institute of Engineering and Technology.

WORKSHOP/FDP/EVENTS ORGANISED:

- Organized One week Quality Improvement Program cum Workshop on “*Urban Waste: Challenges, Mitigation & Management*” organized by Department of Environmental Science, Integral University in collaboration with Re Sustainability and SAWEN Consultancy, Lucknow from 17 to 24 September, 2025.
- Organized PDP on “Modelling and Monitoring Techniques: Environment, Ecology and Pollution” from 25 August to 6 September, 2025 organized by Department of Environmental Science under the aegis of Human Resource Development Center, Integral University, Lucknow.
- Organized Anti- Ragging Day on 12th of August, 2025 as Coordinator.

- Organized “Amrit Dhara- A festival of Rivers” by Wildlife Institute of India, Dehradun on 27 February, 2025.
- Organized as Co- Convener “*Career Guidance Session On “Career Opportunities in Multidisciplinary Fields”*” on 25th September, 2024.
- Organized as Co- Convener International Training Cum workshop on “*Integration of GIS & Disaster Risk Reduction for a Resilient & Sustainable Community*”, 29th November to 5th December, 2023.
- Organized as Convener Face to Face Training/Workshop on “*Disaster Risk Reduction*” on 6th June, 2023.
- Organised PDP as Coordinator Professional Development Program (PDP) On “*Global Environmental Problems & Its Remedial Measures*” November, 16-30, 2021.
- Organised as faculty Coordinator “*World Environment Day & World Bicycle Day*”, 11 June ,2022.
- Organized Faculty Development Workshop at Integral University in collaboration with IIT Bombay “*Libre Office*” on 23/9/17as Convener.
- Organized One Week -AICTE approved Short Term Training Course on “*Climate Change & Disaster Management through ICT*” at Integral University in collaboration with National Institute of Technical Teachers Training Institute (NITTTR), Chandigarh (2017).
- Organized “*On the Spot Painting Competition*” at Lucknow Mahotsava, 2016.
- 104 Workshops of Spoken Tutorial Project of IIT Bombay were organised under my guidance.

CONFERENCE:

- Attended International Conference on “*Innovative Approaches in Higher Education*” on 29th January 2022 organised by University of Mumbai, Department of Education & MKLM’S B L Ambani College of Commerce & economics M R Nathwani College of Arts Ville Parle (W), Mumbai.
- Attended International Conference on “*Himalayan Cryosphere (IHC-2020)*” on 19th to 23rd October 2020 organised by Divecha Centre for Climate Change, Indian Institute of Science Bangalore
- Attended “*ALLERGY Update: Conference Cum Workshop*” on 31st October, 2018 organised by Integral Institute of Medical Sciences & Research, Integral University, Lucknow.
- Attended National Conference on “*Novel Tools & Treatment Approaches in Health Care System*” on 3rd March, 2015 organized by Department of Pharmacy, Integral University, Lucknow.
- Attended National Conference on “*Nanosciences, Nanotoxicology & Nanoinformatics*” Present & Future Perspectives” on 14rd to 15th March, 2015 organised by Department of Biosciences & Bioengineering, Integral University in collaboration with department of NanoBiotechnology, Life Science Foundation, India.
- Attended “*National Convention on Organic Farming*” organized by NITTTR, Chandigarh. (28Feb. -2nd March,2015).
- Attended National Conference on “*Nanoscience & Biotechnology - Present & Future Prospectives*” organized by Department of Nanobiotechnology, Life Science Foundation India, Karnataka in collaboration with Department of Bioengineering, Faculty of Engineering, Integral University, Lucknow on 20th April 2013.

- Attended & participated in Fourth International Conference on “*Plants & Environmental Pollution*” organized by International Society of Environmental Botanists & National Botanical Research Institute, Lucknow on Dec.8 to 11,2010.
- Attended National conference on “*Management of Land Resources & Land-Use Towards Sustainable Development*” organized by Institute of Environment & Development Studies, Bundelkhand University on Oct. 18 & 19 ,2005.

SEMINAR:

- Attended Webinar on “*Research Ethics and Academic Publishing*” organized by Central University of Tamil Nadu, Thiruvavur on November 27th, 2024.
- Attended One day Seminar on “*Following the Research Workflow using Elsevier’s Tools*” organized by HRDC, Integral University in collaboration with Elsevier, India on 6th March, 2018.
- Attended “*Webinar- I on Air Pollution & Cities*”2015, organized by TERI University. (19th October,2015).
- Attended & Participated in National Seminar on “*Sustainable development of Rural India by 2022*” organized by the department of Rural Development, National Institute of Technical Teachers Training Institute, Chandigarh on 7th to 8th March 2013.
- National Seminar on “*Climate Change & Sustainable Development Regional & Grassroot Initiatives*” organized by the department of Rural Development, National Institute of Technical Teachers Training Institute, Chandigarh on March.4 to 5 ,2010.
- Attended National Seminar on “*Bioremediation & Environmental Toxicology*” organized by Institute of Environment & Development Studies, Bundelkhand University on 19th May2005.

MEMBERSHIP OF ACADEMIC BODIES:

- Member, International Association of Hydrological Sciences (IAHS), UK
- Member, British Ecological Society, UK
- Member, South Asia Alliance of Disaster Research Institutes.
- Life Member, Indian Water Resource Society, (IWRS), IIT Roorkee
- Life Member, Clean & Green Society. Lucknow
- Life Member, Indian Science Congress Association, Kolkata
- Life Member, International Society of Environmental Botanist, NBRI, Lucknow.
- Member, Academic Honour Society, Lucknow Christian College, Lucknow.

ORIENTATION/ REFRESHER COURSE/FDP/ PDP

- “NEP 2020 **Orientation** & Sensitization Programme” organized by “Sri Venkateshwar University”, Tirupati from 10 November to 18 November, 2025.
- UGC Sponsored **Two Week Refresher Course** on "*Environmental Studies (Multidisciplinary)*" organized by Sri Venkateshwar University, Tirupati from 24 October to 6 November 2025 and obtained Grade - A.
- “XLIV NEP 2020 **Orientation** & Sensitization Programme” organized by UGC Malaviya Mission Teacher Training Centre, Aligarh Muslim University, Aligarh from 02 to 11.09.2025 and obtained Grade - A+.
- **PDP** on “*Modelling and Monitoring Techniques: Environment, Ecology and Pollution*” from 25 August to 6 September, 2025 organized by Department of

Environmental Science under the aegis of Human Resource Development Center, Integral University, Lucknow.

- AICTE recognized **FDP** on "*Mentoring Skills for Effective Curriculum Implementation*" organized by Curriculum Development Centre Department, NITTTR, Chandigarh from 03 March 2025 to 07 March 2025.
- **Refresher Course** on "*Climate Change Education: Integrating Mission Life into the Curriculum with People in Practice & Action*" from September 28, 2024 to March 1, 2025.
- **Refresher Course** on "*Environmental Studies & Disaster Management*" organized by Mizoram University, from 14 February to 27 February, 2025 and obtained Grade - A.
- **FDP** on "*AI Tools*" organized by Brainovision Solutions India Pvt. Ltd.in collaboration with All India Council for Technical Education (AICTE) from 17 February to 21 February, 2025.
- **FDP** on "*Integrated Water Resource Management*" organized by Civil Engineering Department, NITTTR, Chandigarh from 26 February 2024 to 01 March 2024
- **FDP** on "*Gender & Disaster Management*" organized by NIDM & KESSCS Women Development & Empowerment Cell (WDEC) from 22 to 24 August 2023.
- **FDP** on "*Bridging Climate Change & Environmental Security: Pathways to Resilience*" organised by Department of Environmental Science, Integral University, Lucknow and The Environmental & Consumer Protection Foundation, New Delhi with Grade A from 19 to 29th September, 2023.
- **Two Weeks Refresher Course/ Workshops** on Computational Strategies for Drug Discovery and Sustainable Development organized by Department of Chemistry & Human Resource Development Centre of Integral University in collaboration with Department of Science, Indian Institute of Information Technology, Allahabad from 9 August 2023 to 14 October, 2023.
- **PDP** on "*Recent Trends in Green Technology for Sustainable Life*" organised by Electrical Engineering Department, Integral University, Lucknow from 2 to 16 November 2021.
- **Seven Day Refresher Course** on "*National Educational Policy (NEP) 2020*" organised by HRDC – Integral University, Lucknow from 24 February to 3 March 2021.
- "*Teaching Skills and Communication Development*" Programme organised by Maxel learning Private Ltd. & Integral University, Lucknow from 3rd July to 20th July 2019.
- **Two Week - Faculty development Program** on "*FDP201x, Pedagogy for Online & Blended Teaching Learning Process*" organized by IIT Bombay from 03 to 30 April, 2018.
- **FDP** on "*Xcel in Excel*" organized by Department of Computer Science & Engineering Technology from 22 to 28 May 2018.
- AICTE approved **Faculty Development programme** on "*Pedagogy for Online & Blended Learning Process*" organised by IIT Bombay from 3 May to 30 May 2018.
- **Two Week - Faculty development Program** on "*FDP101x, Foundation Program in ICT for Education*" organized by IIT Bombay from 08 March to 12 April, 2018.
- One day- **Faculty Development Workshop** Organized by Department of Environmental Science & IIT Bombay "*Libre Office*" on 23/9/17.
- **Four Week Faculty Development Programme (FDP)**- AICTE approved on "*Use of ICT in Education for Online & Blended Learning*" organized by IIT Bombay from May 2nd, 2016 to July 10, 2016.

SHORT TERM COURSE

- Course on “*Hyperspectral Remote Sensing and its Applications*” organized by Indian Institute of Remote Sensing / Indian Space Research Organization /Department of Space, Government of India from February 19 to 13 March, 2018.
- AICTE recognized Short Term course on “*Faculty Development Planning and Management*” organised by NITTTR, Chandigarh from 12 to 16 March 2018.
- One Week- AICTE recognized Short Term Course on “*Climate Change & Disaster Management through ICT*” organized by Rural Development Department, National Institute of Technical Teachers Training Institute, Chandigarh from 6 November, 2017 to 10 November, 2017.
- One Week UGC – Short Term Course “*Training Programme on Gender Equality in Academic Leadership*” from 6 July, 2017 to 12 July 2017.
- One Week – AICTE recognized Short Term Course on “*Tools of Engineering Research through ICT*” organized by Electrical Engineering Department, National Institute of Technical Teachers Training Institute, Chandigarh. From 30 January, 2017 to 3 February 2017.
- One Week - UGC Short Term Course on “*Computer Applications*” organized by Aligarh Muslim University & Integral University from 23 to 29 February, 2016.
- Course on “*Climate Change & Disaster Risk*” organized by Global Facility for Disaster Reduction & Recovery and National Institute of Disaster Management from 15th January to 11th February 2016.
- One Week - AICTE recognized Short Term Course on “*Effective Curriculum Implementation through ICT*” conducted by Curriculum Development Centre, NITTTR, Chandigarh & Integral University, Lucknow from 24 to 28, August,2015.
- Completed “*General Course on Intellectual Property Rights*” conducted by World Intellectual Property Organisation from June 8 to July 21,2015.
- One Week - Attended QIP Course on “*Biotechniques for Pollution control and Resource Recovery*” held at IIT- Guwahati, organized by the centre of Environment. from July 1-5, 2013.
- Course on “*Comprehensive National Disaster Risk Management Framework*” by World Bank and National Institute of Disaster Management”, 2010.
- One Week -QIP Course on “*Environment Health and Safety Management*” at IIT-Roorkee from 25th to 29th Jan., 2010.
- One Week-Short term program on “*Environmental Protection and Sustainable Development*” at National Institute of Technical Teacher's Training & Research (NITTTR), Chandigarh from 13th to 17th September, 2009.

AgMOOC Courses:

- Employment Generation among Rural Youth through Agripreneurship (2020)
- Integrated Pest Management (2016,2018 & 2020)
- Fundamentals of Agricultural Extension (2018)
- Basics of Entrepreneurship Development in Agriculture (2017)
- Agriculture Value Chain Management (2017)
- Weather Forecast in Agriculture and Agro- advisory (2016)
- Nutrition, Therapeutics and Health (2016)
- Fasal Utpadan Ke Mool Bhoot Siddhant (2016)
- GIS in Ag-Essentials & Applications (2016)

TRAINING/SUMMER SCHOOL:

- “NSPC -2025” organized by Ministry of Education & Ministry of Environment, Forest & Climate Change on 8 August, 2025.
- Lecture cum training Program on topic “*Lets understand Ecology from Prakrutishala and Learn Own Role through examples of Grassroots Level Works*” organized by Department of Environmental Science, Ishwar Saran Degree College, Prayagraj on 05 June, 2025.
- “IP Awareness & Training Program” organized by Intellectual Property Office on 26 April, 2025.
- Training Programme on “*Environment and Disaster: Integrated Risk, Resilience & Sustainable Development*” organised by National Institute of Disaster Management, New Delhi from 22 to 24 June, 2020.
- Summer School on “*Managing Risks and Challenges in Urban wash Delivery Service Towards a Swachh bharat*”. from 3 to 8, August,2015)
- International Summer School on topic “*Building Learning in Sustainability Science (BLISS)*” at TERI University, New Delhi from 15 to 19 July, 2013.
- 6 - months Training in National Botanical Research Institute, Lucknow.
- 6 - months Training at Biotech Park, Lucknow

WORKSHOPS ATTENDED:

- Workshop on “*Introduction to Statistics and Data Analysis*” organized by Ex- Faculty Indian Statistical Institute, Kokata, Department of Mathematics, Sikkim University from October 24 to 25, 2025.
- One week Quality Improvement Program cum Workshop on “*Urban Waste: Challenges, Mitigation & Management*” organized by Department of Environmental Science, Integral University in collaboration with Re Sustainability and SAWEN Consultancy, Lucknow from 17 to 24 September, 2025.
- Workshop on “*Challenges of 21 Century Education and Introduction to OBE*” organized by Department of Electronics & Communication Engineering, Integral on 28, February 2025.
- International Workshop on Indo- US “*India Mission for Green Hydrogen & Go Electric*” organized by IIT Mandi from 16 to 17 March 2022.
- Workshop on “*Plagiarism & Code of Conduct*” organised by HRDC, Integral University from 2 to 3 March 2022.
- International Workshop on “*Application of Ocean Science & Technology for the Practice of Sustainable “Blue Economy” in Developing Countries*” organised by Centre for Science & technology of the Non-Aligned and other Developing Countries (NAM S&T Centre) New Delhi, India & committee on Capacity Development of the Scientific Committee on Ocean Research (SCOR), Newark, Delaware (USA) from 8 to 9 November, 2021.
- “*Turnip Innovation Festival*” organised by Turnip Innovations on 22 January 2022.
- Workshop on “*High Performance Computation in the Agricultural Domain*” organised by IIT Kanpur, ICAR- IISR Indore & Mahindra University Hyderabad in collaboration with C-DAC Pune, IISC Bangalore, IIT Kharagpur in the year 2021.
- Online Master Class on “*Applied Energy Conservation & Management*” organised by TCS ION on 9 September 2021.
- Two Weeks QIP workshop on “*Spreadsheet Applications – Intermediate level*” organised by IQAC & HRDC, Integral University from 25 June to 15 July 2021.

- “*Sparc Indo US Immunology*” Workshop organised by IIT Ropar & The George Washington University, USA from 12 to 13 June 2020.
- Hands on Workshop “*Detection of color fluorescence and chemiluminescence through Chemi-Documentation System*” organised by Department of Bioengineering, Integral University, Lucknow on 27 April, 2018.
- Entrepreneurship Workshop organised by Entrepreneurship development cell & IIT Kanpur in the year 2016.
- Institutional workshop on “*Oil Conservation*” organized by Petroleum Conservation Research Association on 1st August, 2015.
- “*Two-Week ISTE STTP workshop on Environmental Studies*” organized by IIT Bombay from 2 to 12 June, 2015.
- National workshop on “*Emerging Trends in Earthquake Engineering & Seismic Retrofitting Techniques*” from 25 to 26, April, 2015.
- National workshop on “*Matlab & Embedded Systems*” by Department of Electronics, Integral University & Iqra Software Technologies Pvt., Ltd. on 31, March, 2015.
- National workshop on “*Teaching Pedagogy of Marketing*” by Department of Business Management, Integral University on 17, March, 2015.
- National workshop on “*Data Analysis by SPSS*” organized by Department of Mathematics, Integral University on February 25, 2015.
- 1st National level workshop on “*Intellectual property system: India today and tomorrow*” organized by Intellectual property right management cell, CCG&D, Integral university, Lucknow in collaboration with Intellectual property owners association, New Delhi on 10th January 2014.
- National level workshop on “*Fundamentals of Nanoscience & Nanotechnology*” organized by Department of Nanobiotechnology, Life Science Foundation India, Karnataka in collaboration with Department of Bioengineering, Faculty of Engineering, Integral University, Lucknow from 28th to 30th January, 2013.
- One day “*Workshop on Human Values & Ethics*” organized by SRMCEM on 12th Nov. 2009.

PAPER/POSTER PRESENTED IN CONFERENCE:

- Paper presented in International Workshop on “Clean Water and Sanitation in the Developing World: Perspectives, Best Practices and Future Challenges, 20-21 November, 2025 on the topic “*A Review of the Use of Artificial Intelligence for Smart City Development through Integrated Water Resources Management and Circular Economy*”.
- Paper presented in 15th International Conference on Sustainable Waste Management & Circular Economy and IPLA Global Forum 2025 on the topic “*A Review on the Use of Artificial Intelligence for the Development of a Smart City through Integrated Waste Management system and Circular Economy*” from October 29 to November 01, 2025.
- Paper presented in 15th International Conference on Sustainable Waste Management & Circular Economy and IPLA Global Forum 2025 on the topic “*A Review on the Use of Robotics in Integrated Waste Management Through Artificial Intelligence & Machine Learning*” from October 29 to November 01, 2025.

- Paper presented in International Seminar on Modern Trends in Engineering & Sciences on the topic “*Analysis of Land Use/Land Classification and Land Surface Temperature in Urban areas of Lucknow City*” on 3rd August, 2017.
- Paper presented in National Seminar on Sustainable Development of Rural India by 2022 on the topic “*Management of Floods in Flood Prone Regions of Eastern Uttar Pradesh*” on 7th March, 2023.
- Poster Presented in Fourth International Conference on the topic “*Biopiracy of Traditional Knowledge*” from 8 to 11 December, 2023.

PUBLICATIONS:

- *Integrated groundwater quality assessment using geochemical modelling and machine learning approach in Northern India* (2025), Scientific Reports, 15, Article number: 37675, 1-20. <https://doi.org/10.1038/s41598-025-21592-4>
Q1 Journal: Impact Factor-3.9
- *Machine learning-based health risk assessment of fluoride and nitrate in Indian drinking water: A systematic review* (2025), Journal of Food Composition and Analysis, 145,1-15, 107849. <https://doi.org/10.1016/j.jfca.2025.107849>
Q1 Journal: Impact Factor-4.6
- *Application of Monte Carlo simulation and artificial neural network model to probabilistic health risk assessment in fluoride-endemic areas* (2024), Heliyon Journal, 10(24),1-18, e40887. <https://doi.org/10.1016/j.heliyon.2024.e40887>
Q1 Journal: Impact Factor-3.6
- *Geographical analysis of fluoride and nitrate and its probabilistic health risk assessment utilizing Monte Carlo simulation and GIS in potable water in rural areas of Mathura region, Uttar Pradesh, northern India* (2024), Heliyon Journal, 10(17),1-13, <https://doi.org/10.1016/j.heliyon.2024.e37250>
Q1 Journal: Impact Factor-3.6
- “Antibacterial activity of isoproponalic extracts of selected Indian spices against isolated Urinary Tract Infectious E. coli” (2024), Ecology, Environment & Conservation, 30. (UGC- Indexed)
https://www.envirobiotechjournals.com/issues/article_abstract.php?aid=15333&iid=410&jid=3
- *Potential Application of Hough Transform to Extract Hot Spot Delineated Boundaries Using Landsat-8 Satellite Images*” (2020), International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9(9), 2075–2080.
<https://www.ijitee.org/portfolio-item/B7342129219/>
- “Fertilizer Consumption in India and need of its balanced Use: A review in Indian journal of Environmental Protection”, 38(7),564–577. (UGC, Scopus indexed)
https://www.researchgate.net/publication/327395267_Fertilizer_consumption_in_India_and_need_for_its_balanced_use_A_review
- “Sewage Generation and Treatment Status for the City of Delhi, its Past, Present and Future Scenario- A Statistical Analysis” (2017), International Journal for Research in Applied Science & Engineering Technology (IJRASET), 5(5),926-933.
https://www.researchgate.net/publication/335228238_Sewage_Generation_and_Treatment_Status_for_the_City_of_Delhi_its_Past_Present_and_Future_Scenario-A_Statistical_Analysis

- “Manual Scavenging in India- A Review” (2017), International Journal of Novel Research and Development (IJNRD), 2(4), 129–131.
<https://www.ijnrd.org/papers/IJNRD1704032.pdf>
- “Identification & Selection of Suitable Vermicomposting Species based on Chemical Analysis of Vermicompost (2016),” International Journal of Latest Trends in Engineering and Technology, 7(3), 435-439. <http://dx.doi.org/10.21172/1.73.557>
- "Organic Farming an Approach to Sustainable Development (2016)" International Advanced Research Journal in Science, Engineering and Technology 3(2),119-121.
<https://iarjset.com/upload/2016/february-16/IARJSET%2026.pdf> (UGC- Indexed)
- “Biodiversity and Species at Risk from Climate Change (2015)” International Journal of Engineering & Management Research, 5(4), 162-167.
https://www.researchgate.net/publication/344461339_Biodiversity_and_Species_at_Risk_from_Climate_Change
- "Management of Floods in Flood Prone Regions of Eastern Uttar Pradesh (2015)", International Advanced Research Journal in Science, Engineering and Technology, 2(11),148-152 (UGC- Indexed)
https://www.researchgate.net/publication/344348236_Management_of_Floods_in_Flood_Prone_Regions_of_Eastern_Uttar_Pradesh
- “Strategies Adopted for promoting Research on Sustainable Development in Higher Educational Institutions of India (2013)” University News (Journal of Association of Indian Universities) 51 (17), 202-204.
- “Intellectual property Rights and Biopiracy (2006)” in “Environ Newsletter” of International Society of Environmental Botanist published from National Botanical Research Institute, Lucknow.12(4), 7-9.
<https://www.isebindia.in/pdf/Newsletters%202006/October%202006.pdf>

CHAPTER PUBLICATION:

- Chapter Published in Book “Geospatial Technology to Support Communities and Policy: Pathways to Resiliency” on Topic “Application of Digital Technologies & Remote Sensing in Precision Agriculture for Sustainable Crop Production” 203-223, 2024 (Publisher: Springer Nature Switzerland)
https://www.researchgate.net/publication/379225624_Application_of_Digital_Technologies_Remote_Sensing_in_Precision_Agriculture_for_Sustainable_Crop_Production
- Chapter Published in Book “The Changing Scenario of Management A Multidisciplinary Approach to Embrace Sustainability” on topic “A Review on Achievement of Financial Security in Agrarian Economy through Sustainable Livelihoods Options in Rural India”, Page No.: 24-38, 2022 (ISBN: 978-93-94070-28-8)
https://www.researchgate.net/publication/364385333_A_Review_on_Achievement_of_Financial_Security_in_Agrarian_Economy_through_Sustainable_Livelihoods_Options_in_Rural_India
- Chapter Published in Book “Innovative Approaches in Higher Education” on topic “Teaching and Learning by Innovative Methods used During Corona Pandemic through Online Classes”, Page No.:78-97, 2022.

https://www.researchgate.net/publication/361638262_Teaching_and_Learning_by_Innovative_Methods_used_During_Corona_Pandemic_through_Online_Classes

GUEST LECTURE / EXPERT TALK/ TRAININGS DELIVERED:

- Invitation to serve as Resource Person for FDP “**Transformative Learning through Interdisciplinary AI and ML Applications in Emerging Domains**” on 14-01-2026.
- Expert Lecture in the Value-Added Course “Eco Smart Waste Solutions: Pathways to Sustainable Management” on the topic “ **Use of Artificial Intelligence for the Development of a Smart City through Integrated Waste Management System and Circular Economy**” on 11th October, 2025.
- Invited as a Speaker in Extension program Organized by TERI, New Delhi & NABARD on the topic “**Organic Farming & Integrated Waste Management**” on 22st August 2024.
- Delivered Training Sessions in Green Skill Development Program “**Waste Optimization Potential**” organized by TERI & MOEFCC between 8th April 14th May, 2024.
- Expert Lecture in the Value-Added Course “**Environmental Laws**” on the topic “**Environmental Management & Environmental Impact Assessment**” on 9th August, 2021.
- Expert Talk at **Gyan Vani Radio Station** on the topic “**Climate Change & Agriculture**” on 4th June 2018
- Expert Talk on the topic “**Ill-effects of fireworks and its Protection Measures**” on 22nd March, 2017.

E-CONTENT:

- Audio- E-Content of Expert Talk at Gyan Vani Radio Station on “Climate Change & Agriculture” on 4th June 2018 (<https://vocaroo.com/1nG9ql6czPCg>)

PATENT:

- Patent Application Number: UK: Design number: 6484459
Patent Application Title: “Computer for managing data security using AI and Blockchain”
Grant Date: 19 November 2025

PROJECT FUNDING:

- **CO – Principal Investigator** in Project entitled “To study the effect of removal of Eichhornia on reduction of Water Pollution and conversion of Eichhornia into Vermicompost at “Paikramau Wetland” Bakshi Ka Talaab, Lucknow”. (Collaborative: Integral University & Uttar Pradesh Forest Corporation).