

CURRICULUM VITAE

PROF. (DR.) ASHUTOSH TRIPATHI

Professor

Department of Environmental Science

Nagaland University (A Central University established by an act of
Parliament No. 35 of 1989)

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OBJECTIVE:

- *To prove myself worthy of the organization with plentiful opportunities for learning and career advancement through outcome-oriented means in the field of Science and Environment, and to contribute to the best of my ability towards nation-building.*

TEACHING EXPERIENCE:

- **Professor** in the Department of Environmental Science, Nagaland University since 8th May 2023.
- **Head** of Department of Environmental Science, Nagaland University, Hqrs: Lumami, Zunheboto, Nagaland- 798627 from 17 May 2023 to 25 May 2026.
- Involved in Teaching, Research and Research Guidance in different Academic, Professional and Administrative Capacities at Amity University, Noida, Uttar Pradesh, INDIA for 11 years.
- Supervised 55 M.Sc. and M. Tech. Students in their dissertation work and summer training of six and two months, respectively.
- Helped the trainees, coming from various universities, in their project work for two to three months.
- Assisted in laboratory classes of M. Tech., B. Tech., M.Sc. and B. Sc. students.
- Teaching load of B.Sc., M.Sc., M. Tech., Ph.D. programs of Environmental Sciences/related disciplines as well as UG EVS courses throughout all disciplines since 2012.
- Proposed and prepared syllabus of Postgraduate diploma and certificate course in Environmental management and occupational health and safety management respectively.

PROFESSIONAL EXPERIENCE:

- **Professor and Head** of Department of Environmental Science, Nagaland University, Hqrs: Lumami, Zunheboto, Nagaland- 798627 since May 2023.

- Successful Completion of **ISO/IEC 17025:2017 “Assessor Program”** conducted by IQAS Associate Member- APAC.
- **Editorial Board Member** of SCI indexed research journals.
- **Reviewer** for several Publication houses.
- Six weeks’ **summer training** on project “Air Pollution and its Management” at HINDALCO INDUSTRIES LTD., Renukoot, Sonbhadra, U.P.
- Worked as a **consultant for 6 months** in an Environment Consultancy, SARAS ENVIRONMENT CONSULTANTS at Dehradun.

SCHOLASTICS:

- Ph.D. awarded in Environmental Sciences from **School of Biochemical Engineering, Indian Institute of Technology, Banaras Hindu University, Varanasi in 2012.**
- Six-month Diploma Course in **Industrial Safety** with 1st Division from AIIMS, Chennai.
- M.Sc. in **Environmental Sciences** from Central University of Allahabad, Prayagraj (Marks-73.4 %).
- B.Sc. (**Chemistry, Zoology & Botany**) from Udai Pratap Autonomous College, Varanasi, V.B.S. Purvanchal University (Marks- 61.1 %).
- Intermediate from Kendriya Vidyalaya (CBSE), Bhurkunda, Jharkhand (Marks-65.6% with distinction in Biology).
- High school from Kendriya Vidyalaya (CBSE), Bhurkunda, Jharkhand (Marks-62.4%, with distinction in Mathematics and Science).

ACCOLADES:

- Awarded as **Best Academician** at University Putra Malaysia (UPM), Malaysia in International Conference BICOHAS 25 held on 26th Feb-02nd March 2025.
- Honored with **Senior Scientist 2024 Award** by Environment and Social Development Association (ESDA) during **5th World Environment Summit 2024** at NDMC Convention Centre, Sansad Marg, New Delhi held on 16-18th November 2024.
- Received **Best Oral Presentation** award in **5th World Environment Summit 2024** at NDMC Convention Centre, Sansad Marg, New Delhi held on 16-18th November 2024.
- **Convenor** of One Week Faculty Development Programme on Environmental Pollution and Abatement (4th -9th September 2023) in collaboration of Department of Environmental Science, Nagaland University and Hansraj College, University of Delhi.
- Awarded **Best Paper Presentation** trophy & certificate in International Conference, “World Environment Summit 2020” held at VP Chest Institute, University of Delhi, New Delhi on 18th -19th January 2020.
- Received **Best Oral Presentation** trophy and certificate in National conference on Emerging Environment Challenges and Sustainable Development (EECSD 2018) held at Swami Shraddhanand College, Delhi University, during 21-23 march 2018.
- **Qualified UGC NET** (Dec 2005) in Environmental Sciences.

- **UGC Junior/Senior Research Fellowship** holder for sessions 2006-2011 during Ph.D. in IIT (BHU).
- Secured **Second rank** in M.Sc. (Environmental Sciences) Examinations from University of Allahabad in 2004.
- Secured **1st position in XII (Bio) Board examination** in Kendriya Vidyalaya, Bhurkunda, Jharkhand.

INVITED LECTURES:

- **Invited Resource Person** on 02nd February 2026 in Refresher Course in Environmental Science and Sustainable Development” (Online mode) from January 20 – February 02, 2026, organized by UGC- Malaviya Mission Teacher Training Center, University of Allahabad for University and College teachers on an all-India basis.
- **Invited Speaker** at the 6th World Environment Summit 2025 (November 8-12, 2025) in Bangkok, Thailand.
- **Invited Resource Person** on 18th September 2025 in ICSSR Sponsored 12-Day Capacity Building Programme on ‘Innovative Teaching and Advanced Research” at Kohima organised by Department of Teacher Education, Nagaland University.
- **Invited** to deliver lecture on 18th July 2025 in Faculty Development Program (FDP) on “Emerging trends and pedagogical innovations in Biotechnology” Organized by Faculty of Biotechnology and Faculty of Biosciences, Institute of Biosciences & Technology (IBST), SRI RAMSWAROOP MEMORIAL UNIVERSITY (SRMU), Lucknow, Uttar Pradesh, India from 14th-18th JULY, 2025.
- **Invited Resource Person** to deliver a lecture on 05.06.2025 in an online Multidisciplinary Refresher Course in Multidisciplinary Refresher Course on Recent Trends and Innovations in Humanities & Social Sciences from 22nd May to 08th June, 2025 organised by UGC-MMTTC (under the scheme of Madan Mohan Malviya Teacher Training Programme, Ministry of Education, Government of India) of Ishwar Sharan PG College, Central University of Allahabad, Prayagraj.
- **Invited speaker** to deliver plenary lecture and chair the Technical Session scheduled on 8th March 2025 in International Conference on Sustainable Technologies for Viksit Bharat (ICSTVB 2025) from April 8 - 9, 2025, organized by Department of Environmental Science, Amity University Madhya Pradesh (AUMP), Gwalior (M.P).
- **Invited speaker** in the **National Conference on Recent Trends in Environmental Pollution and Health (NCRTEPH 2024) on November 28-29, 2024** organised by Department of Zoology, Nagaland University, Hqrs: Lumami, Zunheboto, Nagaland.
- Invited as **keynote speaker** for event commemorating the **International Day for Disaster Risk Reduction 2024** scheduled for 16 October 2024 at Department of Geography HNB Garhwal University (A Central University), SRT Campus, Tehri Garhwal , Uttarakhand-249199.
- **Invited speaker** in the Workshop on “Scouting, Documentation, and Dissemination of Local Grassroots Innovators from Nagaland”, scheduled on 11th September 2024, at

Fazal Ali College, Mokokchung, Organized by the Department of Environmental Science and Research and Development Cell, in collaboration with NIF, DST, Govt, of India.

- **Invited as Resource Person** for ICSSR, New Delhi-sponsored 2 Weeks ICSSR Sponsored Capacity Building Programme for the faculty members of Social Sciences on the theme "Interdisciplinary Social Science Research towards Self-reliant India" from 8th July to 20th July, 2024. Organized by School of Social Sciences of The Assam Kaziranga University, Koraikhowa, NH-37, Jorhat-785006, Assam, India.
- **Invited as Resource Person** for ICSSR, New Delhi-sponsored 12 Days Capacity Building Programme on Academic and Research Excellence in Higher Education for young faculty members (7 May – 18th May 2024) organized by the Department of Education, Nagaland University, Kohima Campus, Nagaland
- **Resource Person** for ICSSR, New Delhi-sponsored 12 Days Capacity Building Programme on Curriculum Development for Higher Education Teachers (26th October - 6th November 2023) organized by the Department of Teacher Education, Nagaland University, Kohima Campus, Nagaland on 6th Nov 2023.
- **Resource Person** for one-week online course titled "Sustainable Solutions to Solid Waste Management (S3WM2023)" held from September 4-8, 2023, organized by the Department of Civil Engineering, National Institute of Technology, Patna.
- **Resource Person** in technical session during national workshop commemorating the 9th International day of Yoga from 12th to 20th June, 2023 at Nagaland University headquarters Lumami, Nagaland
- **Invited lecture on** "Assessment of heavy metals accumulation and health risk associated with the consumption of potato and spinach grown in municipal solid waste compost amended soil in "International Conference on Emerging Trends in Bioscience and Chemical Technology-2022 (ETBCT-2022)" held during 3rd-5th December 2022 at SMVDU, Katra, Jammu, J&K.
- **Invited Oral presentation of a paper entitled** "Biodecolorization of Azo dye, Acid Orange 10, using different bacterial Strains" at **2nd International Conference on Environmental Science and Technology, ICEST2011**, held during 26th to 28th February 2011 at **Singapore**.
- **Oral presentation in Young Scientist session** at National Conference on Environmental Problems in India and Challenges to Plant Biologist (EPICPB 2011), during February 4-5, 2011, organized by Udai Pratap (Autonomous) College, Varanasi-221002 (U.P.).

PUBLICATIONS:

Research Papers

- S. Ganjingla, Vartika Singh and **Ashutosh Tripathi**, Roadside Vegetation: A nature-based Approach to Mitigate Particulate Matter in Environment, ENVIS NBRI Newsletter, Vol.21, Issue No.4, October 2025, ISSN-2581-7426 (Print)/ISSN-2581-740X (Online)

- Ashutosh Tripathi-II, Sarojni Rai, **Ashutosh Tripathi-I**, Silent Sentinels: Exceptional Metal Uptake by Two Green Algae from a Highly Contaminated River Stretch, *National Academy Science Letters* (2025), <https://doi.org/10.1007/s40009-025-01822-z>. **(I.F. 1.3)**
- Ashutosh Tripathi-II, Sarojni Rai, Devendra Kumar Soni, **Ashutosh Tripathi-I**, Poonam Pandey, Combined challenges posed by climate change and pollution to river ecosystems: exploring connecting links, hydro-biological impacts and future research approaches, *Environmental Sustainability* (2025), <https://doi.org/10.1007/s42398-025-00371-x>. **(I.F. 2.8)**
- P. Bhardwaj, A. Chauhan, A. Ranjan, V.D. Rajput, U. Mina, N.C. Joshi, L. Dufossé*, **A. Tripathi***, Impact of municipal solid waste compost on *Spinacia oleracea* L. (Spinach) Yield: Health risk assessment and dosing optimization, *City and Environment Interactions* (2025), doi: <https://doi.org/10.1016/j.cacint.2025.100207>. **(I.F. 3.8)**
- Kashif Rahmani Ansari Pengjie Wang*, Ambrish Singh, M.A. Quraishi*, **Ashutosh Tripathi**, Abdullah K. Alanazi, Ismat H. Ali, Yuanhua Lin. Understanding the adsorption of imidazo-pyrimidine derivative corrosion inhibitor at the P110 steel/CO₂ +H₂S saturated simulated formation water interface: experimental and theoretical elucidation (2025). *Journal of the Taiwan Institute of Chemical Engineers*. (2025) Volume 173, August 2025, 106149. <https://doi.org/10.1016/j.jtice.2025.106149>. **(I.F. 6.3)**
- Manjul Panwar, kakul Smiti, Riddhi Khatri, Freeda L. Sailo, **Ashutosh Tripathi**, Usha Mina. Optimizing Plant Species Selection for Alleviating Air Pollution: Modified Anticipated Performance Index Based Evaluation in Delhi. *Environmental Monitoring and Assessment*. (2025) 197:566. <https://doi.org/10.1007/s10661-025-13947-1>. **(I.F. 3.0)**
- Jimmy Mehta, Chanchal Ahlawat, **Ashutosh Tripathi**, Vijay Chaudhary and Pallav Gupta. Cleaner Production Techniques for Developing Sustainable Polymeric Composites: Influencing Factors, Challenges and Future Applications. *ECS J. Solid State Sci. Technol.* **2025,14** 047001 DOI 10.1149/2162-8777/adc202. **(I.F. 1.8)**
- Arvind Kumar Yadav, Mohseena Hasan, Simranjeet Kour, Ratna Chandra, Vivek Kumar Singh, I.M. Noor, M.Z.A. Yahya, Har Mohan Singh*, **Ashutosh Tripathi***. Heavy Metal Contamination in Plants: Sources, Monitoring, and Data-Driven Insights. *Macromol. Symp.* **2025, 414**, 2400239. <https://doi.org/10.1002/masy.202400239>
- Ashutosh Tripathi, Dharmnath Prajapati, **Ashutosh Tripathi***. *Nepeta hindostana* H. ex Roth: A Promising Plant for Bio-removal of Heavy Metals from Contaminated Soils. (2025), *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* <https://doi.org/10.1007/s40011-024-01661-w>. **(I.F. 1.20)**
- Indrajeet Kumar, Umesh Kumar, Prince Kumar Singh, Akanksha Dwivedi, Priyanka Singh, **Ashutosh Tripathi**, Rajesh Kumar Sharma. Phytochemical composition, antioxidant and antibacterial properties of methanol stem and leaf extracts of *Croton bonplandianus* Baill, *Vegetos* 2024 . <https://doi.org/10.1007/s42535-024-01060-6> **(I.F. 1.32)**
- Indu Bhushan, Malvika Mehta, Mahima Sharma, Chitrakshi Chopra, Ratna Chandra, Ikhwan Syafiq Mohd Noor, Muhd Zu Azhan Yahya, **Ashutosh Tripathi**, Arvind Kumar Yadav. Role of nanomaterials in modern agriculture., *ZASTITA MATERI JALA*

65 (2024),ISSN 0351-9465, E-ISSN 2466-2585, <https://doi.org/10.62638/ZasMat1098>.
(I.F. 2.984)

- Saloni Agarwal, Nidhi Rana, ,Pallavi Bhardwaj, G.N. Tiwari, Arvind K Yadav, Manoj Chandra Garg, Ashish Mathur and **Ashutosh Tripathi** . Remediation of Methylene Blue Azo Dye from Aqueous Solutions Using Biosorbent Developed from Floral Waste.,Journal of Environmental Biology, pISSN: 0254-8704; eISSN: 2394-0379, Volume 45 Issue 1 , pp. 54-61, January 2024. (I.F. 0.87)
- Deepak Pal, **Ashutosh Tripathi**, Shivangini Sharma, Devendra Kumar and Kartikeya Shukla. Evaluating Seasonal variation forAnthropogenic and Natural Factors Impact on water quality of Pichola Lake, Udaipur, Rajasthan, India.,Indian Journal of Environmental Protection 43(8): 715-725 : Vol. 43 Issue. 8 (August 2023).
- Divya Upadhyay , **Ashutosh Tripathi** , K.D. Joshi , Manuj Bhardwaj, Tanu Jindal and Kartikeya Shukla. Chemical dye-induced alteration in hematological, biochemical, and enzymatic parameters of gymnocorymbus ternetzi exposed to synthetic food colour wastewater, SCIENTIFIC CULTURE, Vol. 9, No. 1, pp 846-859, 2023. (I.F. 1.35)
- Akshay Kumar Singh, Sushil Kumar Shukla, Pardeep Singh, Sughosh Madhav , **Ashutosh Tripathi**. Assessment of air pollution tolerance and anticipated performance index of roadside trees in urban and semi-urban regions, Environ Monit Assess. 2023 Sep 1;195 (9):1135. doi: 10.1007/s10661-023-11759-9. (I.F. 3.60)
- Divya Upadhyay , Tanu Jindal , **Ashutosh Tripathi**, K. D. Joshi, Kartikeya Shukla . Impact of Synthetic Food Colouring Agents on Aquatic Ecosystems and Human Health,*UTTAR PRADESH JOURNAL OF ZOOLOGY*, Volume 44, Issue 13, Page 17-37 (2023),DOI: 10.56557/upjoz/2023/v44i133542.
- Ritu Chauhan, **Ashutosh Tripathi**, Abhishek Chauhan, Rupesh Kumar Basniwal, Anuj Ranjan, Arpna Kumari, Vishnu D. Rajput, Evgeniya V. Prazdnova, Tatiana Minkina, Subhash C. Chauhan, Tanu Jindal, Ram Prasad. Bioactive compounds from high altitude lake Arthrospira platensis HANL01: Antioxidant property, thermal stability and antibacterial assessment against multiple antibiotics resistant bacteria, Bioresource Technology Reports, 2023, 101398, ISSN 2589-014X, (<https://doi.org/10.1016/j.biteb.2023.101398>)(<https://www.sciencedirect.com/science/article/pii/S2589014X23000695>). (I.F. 5.0)
- Ritu Chauhan **Ashutosh Tripathi**, Abhishek Chauhan, Anuj Ranjan, Hadi Sajid Abdulabbas, Subhash C. Chauhan, Tanu Jindal. Phytochemicals Profiling of Blue-Green Alga Nostoc sp. HANL07: Antioxidant, Antibacterial Activity and GC-MS Analysis, February 2023. Asian Journal of Chemistry 35(3):755-762 <https://doi.org/10.14233/ajchem.2023.27281>.
- Shilpi Lavania, Jimmy Mehta, Pallavi Bhardwaj, **Ashutosh Tripathi**, Niraj Gupta, Pallav Gupta. Biocomposites: prospects and manifold applications for human and environmental sustainability. ECSJournal of Solid State Science and Technology, Accepted Manuscript online 22 February 2023 • © 2023 The Electrochemical Society ("ECS"). Published on behalf of ECS by IOP Publishing Limited.DOI-10.1149/2162-8777/acbe17, <https://iopscience.iop.org/article/10.1149/2162-8777/acbe17>. (I.F. 2.2)

- Bhardwaj, Pallavi, Abhishek Chauhan, Anuj Ranjan, Saglara S. Mandzhieva, Tatiana Minkina, Usha Mina, Vishnu D. Rajput, and **Ashutosh Tripathi***. 2023. "Assessing Growth-Promoting Activity of Bacteria Isolated from Municipal Waste Compost on *Solanum lycopersicum* L." *Horticulturae* 9, no. 2: 214. <https://doi.org/10.3390/horticulturae9020214>. **(I.F. 3.0)**
- Bhardwaj, Pallavi, Rajesh Kumar Sharma, Abhishek Chauhan, Anuj Ranjan, Vishnu D. Rajput, Tatiana Minkina, Saglara S. Mandzhieva, Usha Mina, Shikha Wadhwa, Prakash Bobde, and **Ashutosh Tripathi** 2023. "Assessment of Heavy Metal Distribution and Health Risk of Vegetable Crops Grown on Soils Amended with Municipal Solid Waste Compost for Sustainable Urban Agriculture" *Water* 15, no. 2: 228. <https://doi.org/10.3390/w15020228>. **(I.F. 3.0)**
- Deepak Pal, **Ashutosh Tripathi**, Tahir Hussain, R.B. Lal, Tanu Jindal and Kartikeya Shukla. Seasonal Variations of The Water Quality Of Pichola Lake,Udaipur, Rajasthan, India Caused By Anthropogenic And Natural Factors. *Journal of Pharmaceutical Negative Results*, ISSN: 2229-7723 (2022).
- Deepak Pal, **Ashutosh Tripathi**, Tahir Hussain, R.B. Lal, Tanu Jindal and Kartikeya Shukla. Assessment of Impact of Human Interface including Mining Activities on Water Quality of Banas River, Rajsamand city, India. *Asian Journal of Chemistry*, Vol. 34, No.12, pp 3299-3307 (2022).<https://doi.org/10.14233/ajchem.2022.24032>.
- **A. Tripathi**, M. R. Ranjan, D. K. Verma, Y. Singh, S. K. Shukla, Vishnu D. Rajput, Tatiana Minkina, P. K. Mishra & M. C. Garg. ANN-GA based biosorption of As(III) from water through chemo-tailored and iron impregnated fungal biofilter system. *Scientific Reports*, volume 12, Article number: 12414 (2022). **(I.F.4.01)**
- Ritu Chauhan, Abhishek Chauhan, **Ashutosh Tripathi**, Anuj Ranjan, Subhash C. Chauhan, Tanu Jindal. PHARMACEUTICAL POTENTIAL OF LABORATORY GROWN CULTURES OF BLUE-GREEN ALGAE: A COMPREHENSIVE REVIEW AND FUTURE POSSIBILITIES. *Journal of Experimental Biology and Agricultural Sciences*, October - 2021; Volume – 9(5) page 543 – 571.
- Pallavi Bhardwaj Ashutosh Tripathi, Manju Rawat Ranjan Parveen Kumar, Manju Rawat Ranjan and S. Balachandran. Assessment of bioassay test of the effluent and impact of selected physiochemical parameters of kota super Thermal power plant's effluent on Kota barrage lake Water, Kota Rajasthan India. *Plant Archives* Vol. 20 Supplement 1, 2020 pp. 983-987.
- Pallavi Bhardwaj, Manju Rawat Ranjan, **Ashutosh Tripathi** and Usha Mina. Growth Response of Potato and Spinach Crops to Varying Municipal Solid Waste Compost Treatments. *Plant Archives* Volume 20 No. 2, 2020 pp. 4477-4484.
- Manju Rawat Ranjan, **Ashutosh Tripathi** and Ganga Sharma. Medical Waste Generation during COVID-19 (SARS-CoV-2) Pandemic and its Management: An Indian Perspective. *Asian Journal of Environment & Ecology* 13(1): 2020 pp. 10-15.
- Parveen Kumar, Manju Rawat Ranjan, **Ashutosh Tripathi** and S. Balachandran. Assessment of thermal power station's effluent on heterotrophic plate counts and total coliform in Kota Berrage Lake, Rajasthan India, *Eco. Env. & Cons.* 25 (3): 2019; pp. 1208-1212. **(I.F.0.34)**

- R. Mittal, B. Chakrabarti, T Jindal, **A Tripathi**, U Mina, R. Dhupper, D. Chakraborty, RS Jatav, and RC Harit. Carbon footprint is an indicator of sustainability in Rice-Wheat cropping system: A Review, Chemical Science Review and Letters, volume 7, issue 27, 2018, Page No. 774-784.
- R. Mittal, B. Chakrabarti, **A Tripathi**, U Mina, T Jindal, RS Jatav and R. Dhupper. Carbon Footprint of Rice and Wheat Crop under Conventional and Conservation Agricultural Practices, International Journal of Tropical Agriculture, Volume 36, No.4, 2018, Page no-931-934.
- Parveen Kumar, Manju Rawat Ranjan, **Ashutosh Tripathi**, S. Balachandran and Prateek Srivastava. Heavy Metal Pollution Assessment around Kota Super Thermal Power Plant, POLLUTION RESEARCH, Volume 37, Issue 3, 2018, Page No. 720-728.
- Parveen Kumar, Manju Rawat Ranjan, **Ashutosh Tripathi**, Prateek Srivastava and Balachandran S. Assessment of the level and impact of selected physiochemical parameters of kota super thermal power plant's effluent on chambal river, Kota, Rajasthan, India, International Journal of Current Advanced Research, Volume 7; Issue 1(E); January 2018; Page No. 9021-9024, ISSN: O: 2319-6475, ISSN: P: 2319-6505.
- Tanu, R Suresh, Praveen Kukreti, Amita Sinha, Manju Rawat Ranjan, **Ashutosh Tripathi***. Study of Yamuna River Water and Its Nearby Drinking Water Sources in North Delhi, International Journal of Engineering Research and Application, volume. 8, Issue3, (Part -3), pp.35-39, March 2018, ISSN: 2248-9622.
- **Ashutosh Tripathi** and Manju Rawat Ranjan (November 2017). Role of plants in mitigation of air pollution. International Journal of Scientific Research Engineering & Technology, volume 6, Issue 11, pp.1087-1094, ISSN 2278 – 0882.
- **Ashutosh Tripathi**, Yogendra Singh, Devendra Kumar Verma, Manju Rawat Ranjan, and S.K. Srivastava (2016). Bioremediation of Hazardous Azo Dye Methyl Red by a Newly Isolated Bacillus megaterium ITBHU01: Process Improvement through ANN-GA Based Synergistic Approach. Indian Journal of Biochemistry and Biophysics (IJBB), Vol. 53, pp. 112-125, ISSN NO. ISSN:0975-0959 (Online). (**I.F. 2.10**)
- **Ashutosh Tripathi** and Manju Rawat Ranjan. Heavy metal removal from wastewater using low cost adsorbents. Journal of Bioremediation and Biodegradation, Volume 6, Pages, 315(1-5), ISSN: 2155-6199, 2015.
- Sheetal Surbhi, Manju Rawat Ranjan, **Ashutosh Tripathi**. Green buildings for sustainable development in India. Integrated Journal of Engineering Research and Technology, Vol. 2 (1), pp. 70-79, ISSN NO. 2348 – 6821, 2015.
- Manju Rawat Ranjan, AL. Ramanathan, **Ashutosh Tripathi**, Pawan Kumar Jha. Landfill Mining: A Case Study from Ghazipur Landfill Area of Delhi. International Journal of Environmental Science (IJES), Vol.4 (5), pp.919-925, ISSN: 0976-4402, 2014.
- Sushil Kumar Shukla, **Ashutosh Tripathi**, P.K. Mishra. Fungal decolorization of anaerobically Biodigested distillery (ABDE) following Coagulant pretreatment. International Journal of Science Environment and Technology (IJSET), Vol. 3, No 2, 2014, pp.723 – 734. ISSN 2278-3687 (O), April 2014.

- **A.Tripathi**, S.K.Srivastava. Biodegradation of Orange G by a novel isolated bacterial strain *Bacillus megaterium* using Response Surface Methodology, African Journal of Biotechnology, Vol.11 (7), pp. 1768-1781, 2012. **(I.F. 0.87)**
- **A.Tripathi**, S.K. Srivastava. Ecofriendly Treatment of Azo Dyes: Biodecolorization using Bacterial Strains, International Journal of Bioscience, Biochemistry and Bioinformatics, vol.1 (1), pp. 37-40: 2010-3638, 2011.
- **A.Tripathi**, S.K. Srivastava. Biodecolorization of Acid Orange 10, using different bacterial strains, 2011 2nd International Conference on Environmental Science and Technology, IPCBEE, vol.6, 253-257, 2011, © (2011) IACSIT Press, Singapore.

Book Chapters

- S. Ganjingla, Imokokla Imsong, Ranika Roy, Susmita Reang, Ashutosh Tripathi II, **Ashutosh Tripathi I** (2025). Restoration of Aquatic Ecosystems for Water Resource Management: Challenges and Sustainable Solution in Book Entitled Global water Scarcity: causes, impacts, and management strategies, Wiley.
- Arvind K. Yadav, Amook Sharma, Punit K. Khanna, Ratna Chandra, **Ashutosh Tripathi**, Deepak Kumar and Manoj Kandpal (2024). Book Chapter entitled “Antimicrobial Coatings: Recent Advances and Development in Healthcare Systems” in Book entitled Functional Coatings for Biomedical Energy and Environmental Applications, ISBN-978-1-394-26314-1, Wiley.
- Priyanka Sehrawat, **Ashutosh Tripathi**, Manju Rawat Ranjan, Prafull Singh, Sushil Kumar Shukla (2024). Book Chapter entitled, “Microplastics risk assessment and its potential threats to marine biodiversity as well as human beings” in Book entitled, “Meso and Microplastic risk assessment Marine Environment, ISBN 978-0-323-90980-8 © 2024 Elsevier Inc pp. 343-358, <https://doi.org/10.1016/B978>.
- Pallavi Bhardwaj, Abhishek Chauhan, Anuj Ranjan and Ashutosh Tripathi (2024). Book Chapter entitled Nanomaterial-induced phytotoxicity and challenges to ongoing agricultural practices in book Emerging Contaminants Sustainable Agriculture and the Environment, Elsevier, pp-179-197, <https://www.sciencedirect.com/science/article/abs/pii/B9780443189852000122>.
- Shivangini Sharma and Ashutosh Tripathi(2023). Book Chapter entitled Energy from Urban Waste: A Mysterious Opportunity for Energy Generation Potential in Book Urban Energy Systems ~ A modelling and Simulation Perspective. <https://doi.org/10.1002/9781119847595.ch9>.
- Ashutosh Tripathi, Vanya Pandey, Manju Rawat Ranjan (2021). Book Chapter entitled CLIMATE CHANGE AND ITS IMPACT ON SOIL PROPERTIES in Book “Climate Change and the Microbiome: Sustenance of the Ecosphere”. Springer, cham. Print ISBN 978-3-030-76862-1, Vol.63, pp. 139-153, October 2021. https://doi.org/10.1007/978-3-030-76863-8_7.
- Vanya Pandey, Manju Rawat Ranjan, **Ashutosh Tripathi** (2021). Climate Change and Its Impact on the Outbreak of Vector-Borne Diseases. In: Rai P.K., Singh P., Mishra V.N. (eds) Recent Technologies for Disaster Management and Risk Reduction. Earth

and Environmental Sciences Library. Springer, Vol. 63, pp. 199-216. Cham. https://doi.org/10.1007/978-3-030-76116-5_13.

- Manju Rawat Ranjan, Pallavi Bhardwaj, and Ashutosh Tripathi (2021). Microbial Sequestration of Atmospheric Carbon Dioxide. In Book “Climate Change and the Microbiome: Sustenance of the Ecosphere”. Springer, Cham. Print ISBN 978-3-030-76862-1, Vol.63, pp. 199-216, October 2021. https://doi.org/10.1007/978-3-030-76863-8_10.
- Arpita Banerjee, Sanjay Kumar Thakur, **Ashutosh Tripathi**, Manju Rawat Ranjan. Book Chapter entitled, “A REMOTE SENSING AND GIS APPROACH TO CREATE 3D BUILDING MODEL USING CARTOSAT-1 IMAGERY: A case study from OSHIWARA CITY, MUMBAI” in book entitled "Geo-information Technology for Earth Resources Monitoring and Management, Nova Science Publishers, 2021.
- Anusha Vishwakarma, Sushil Kumar Shukla Vinod Kumar Tripathi, Chandra Shekhar Dwivedi, Santosh Kumar Jha, **Ashutosh Tripathi**. Book chapter entitled, “Effects of Acid Mine Drainage on hydro-chemical properties of groundwater and possible remediation” in Book named, “GROUNDWATER GEOCHEMISTRY: POLLUTION AND REMEDIATION METHODS”. © 2021 John Wiley & Sons Ltd pp.232-264, 2021. <https://doi.org/10.1002/9781119709732.ch12>.
- Pallavi Bhardwaj, **Ashutosh Tripathi**, Manju Rawat Ranjan. Book chapter entitled, ‘WASTE TO WEALTH: A SUSTAINABLE WASTE MANAGEMENT PRACTICE in book “WASTE MANAGEMENT AND SUSTAINABLE DEVELOPMENT INITIATIVES” pages 1-9. Print ISBN 978-81-949597-8-6, 2021. <https://novateurpublication.com/index.php/np/catalog/view/18/13/239-1>.
- S.K. Shukla and **Ashutosh Tripathi**. Cost benefit analysis of wastewater reuse in microirrigation: A Review, Book chapter in “Wastewater Management for Irrigation Principles and Practices”, Pages 317–336. Volume 8 for Book series: Research advances in sustainable microirrigation (Apple Academic Press, Inc.) Print ISBN: 978-1-77188-120-3, eBook ISBN: 978-1-4987-2739-6, July 2015.
- Ashutosh Tripathi (September 2016). Emerging Technology for Industries in Waste Management. World SME News, pp. 10-14, ISSN 0973-1261.

INTELLECTUAL PROPERTY RIGHTS (IPR):

IPR Granted

1. Patent office, Government of India, Patent Certificate

Patent Number: 585026

Application No: 202431053762 A

Date of Grant: 25/03/2026; Date of filing of Application: 15/07/2024;

Publication Date: 26/07/2024

Title of the invention: **Process Modelling of Municipal Solid Waste Compost for Ponceau S Biodegradation Using Isolated Bacillus Sp. LPOC3 Strain.**

Name of Applicant: 1) Nagaland University

Name of Inventor: **Prof. Ashutosh Tripathi**, Dr. Ambrish Singh, Asst. Prof. Ashutosh Tripathi, Dr. Joginder Singh, Pallavi Bhardwaj

2. Patent office, Government of India, Patent Certificate

Patent No: 553715

Application No: 202431029656 A

Date of filing of Application: 12/04/2024

Title of the invention: **Biloba extract as a green corrosion inhibitor for preventing steel bar corrosion in concrete pore**

Name of Applicant: 1) Nagaland University

Name of Inventor: Dr. Ambrish Singh, Dr. Yuhanua Lin, Mrs. Shivani Singh, Kashif Rahmani Ansari, **Dr. Ashutosh Tripathi**, Dr. Ashutosh Tripathi, Dr. Joginder Singh Panwar, Yin caiboag.

3. Patent office, Government of India, Patent Certificate

Patent No: 553582

Application No: 202431027326

Date of filing of Application: 02/04/2024

Title of the invention: **A process of making paint composition of natural polysaccharide composite**

Name of Applicant: 1) Nagaland University

Name of Inventor: Dr. Ambrish Singh, Dr. Yuhanua Lin, Mrs. Shivani Singh, Kashif Rahmani Ansari, **Dr. Ashutosh Tripathi**, Dr. Ashutosh Tripathi.

4. Patent office, Government of India, Patent Certificate

Patent No: 553155

Application No: 202431027324 A

Date of filing of Application: 02/04/2024

Title of the invention: **IMIDAZOLE derivative as a novel corrosion inhibitor for Q235 Steel and process thereof**

Name of Applicant: 1) Nagaland University

Name of Inventor: Dr. Ambrish Singh, Dr. Yuhanua Lin, Mrs. Shivani Singh, Kashif Rahmani Ansari, **Dr. Ashutosh Tripathi**, Dr. Ashutosh Tripathi

5. Federal Republic of Germany

Certificate on the registration of utility model No. 20 2024 104 371 dated 12th August 2024

Designation: **A combined system for density separation and filtration of microplastics in River water samples IPC: B01D 35/28**

Owners: Bhardwaj, Pallavi, Dr., Noida, Uttar Pradesh, IN

Kumar, Niraj, Dr., Prayagraj, Uttar Pradesh, IN

Kumar Chauhan, Devendra, Prof., Allahabad, Uttar Pradesh, IN

Nagaland University, Zunheboto, Nagaland, IN

Singh, Ambrish, Prof., Zunheboto, Nagaland, IN

Singh Panwar, Joginder, Prof., Zunheboto, Nagaland, IN

Tripathi, Ashutosh, Dr., Zunheboto, Nagaland, IN

Tripathi, Ashutosh, Prof., Zunheboto, Nagaland, IN

6. Certificate of Registration for a UK Design

Design number: 6379208; Grant date: 25 July 2024; Registration date: 18 July 2024

Design name: **Test tube stand with Holder**

International Design Classification: Version: 14-2023

Class: 06 FURNISHING

Subclass: 04 STORAGE FURNITURE

Registered in name of: Nagaland University, Dr. Ambrish Singh, **Ashutosh Tripathi**, Joginder Singh Panwar, Dr. Tanay Pramanik, Dr. Ashish Kumar, Akmaral Argimbayeva, Yeldana Bakhytzhan, Elyor Berdimurodov.

7. Certificate of Registration for a UK Design

Design number: 6379207; Grant date: 25 July 2024; Registration date: 18 July 2024

Design name: **Digital Desiccator**

International Design Classification: Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

Registered in name of: Nagaland University, Dr. Ambrish Singh, **Ashutosh Tripathi**, Joginder Singh Panwar, Dr. Tanay Pramanik, Dr. Ashish Kumar, Akmaral Argimbayeva, Yeldana Bakhytzhan, Elyor Berdimurodov.

8. Certificate of Registration for a UK Design

Design number: 6379209; Grant date: 25 July 2024; Registration date: 18 July 2024

Design name: **Gym Machine**

International Design Classification: Version: 14-2023

Class: 21 GAMES, TOYS, TENTS AND SPORTS GOODS

Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

Registered in name of: Nagaland University, Dr. Ambrish Singh, **Ashutosh Tripathi**, Joginder Singh Panwar, Dr. Harish Kumar Tiwari, Dr. Keren Harish Tiwari, Mr. Ashish Kumar

9. Certificate of Registration for Indian Design

Date of Grant: 24/07/2024

Design number: **424307-001**

Design name: - **Disinfectant bottle**

Name of Applicant: 1) Nagaland University

Name of Inventor: **Prof Ashutosh Tripathi**, Dr. Ambrish Singh, Dr. Ashutosh Tripathi, Dr. Joginder Singh

10. Certificate of Registration for Indian Design

Date of Grant: 24/07/2024

Design Number: **424304-001**

Design name: - **Mosquito repellent**

Name of Applicant: 1) Nagaland University

Name of Inventor: **Prof Ashutosh Tripathi**, Dr. Ambrish Singh, Dr. Ashutosh Tripathi, Dr. Joginder Singh

11. Certificate of Registration for Indian Design

Date of Grant: 24/07/2024

Date of filing of Application: 24/07/2024

Design number: **424303-001**

Design name: **Soap Dish**

Name of Applicant: 1) Nagaland University

Name of Inventor: **Prof Ashutosh Tripathi**, Dr. Ambrish Singh, Dr. Ashutosh Tripathi, Dr. Joginder Singh

12. Patent office, Government of India, Patent Certificate

Patent No: 553582

Application No: 202431027326 A

Date of filing of Application: 02/04/2024; Publication Date: 19/04/2024

Title of the invention: **Corrosion protection of negative electrode of Lead Acid battery by Natural Polysaccharide Composite**

Name of Applicant: 1) Nagaland University

Name of Inventor: Dr. Ambrish Singh, Dr. Yuhanua Lin, Mrs. Shivani Singh, Kashif Rahmani Ansari, **Dr. Ashutosh Tripathi**, Dr. Ashutosh Tripathi

FUNDED RESEARCH PROJECTS:

- Evaluation of climate change perception, knowledge and responses in tribal communities of Nagaland, N.E. India **awarded by North Eastern Council Secretariat**, Ministry of Development of North Eastern Region, Government of India (***Ongoing***).
- Socio-economic and Environmental Impact of Jal Jeevan Mission (JJM) and Sustainability: An Empirical Study in Nagaland, awarded by **ICSSR Collaborative Empirical Research Project on Jal Jeevan Mission (2024-25)** (***Ongoing***).
- Assessment of toxicity on Vegetative Crops by application of Municipal Solid Waste Compost (MSWC) with File Number: EMR/2017/004448 **awarded by SCIENCE & ENGINEERING RESEARCH BOARD (SERB)** (Statutory Body Established through an Act of Parliament: SERB Act 2008) (***Completed***).

Research Guidance

Ph.D. Guidance:

Students with degree Awarded (05)

- **MR. PARVEEN KUMAR (Batch 2014-2020)** To study the impact of effluent from the Kota thermal power plant on the water quality of Chambal river.
- **MS. PALLAVI BHARDWAJ (Batch 2020-2023)** Assessment of heavy metals toxicity on vegetative crops by application of municipal solid waste compost.
- **MS. RITU CHAUHAN (Batch 2019-2023)** Characterization and stability studies of pharmaceutically important compounds from blue-green-algae.
- **MR. DEEPAK PAL (Batch 2018-2023)** Impact assessment of continuous mining on environment and public health.
- **DIVYA UPADHYAYA (Batch 2019-2023)** Implication of wastes from synthetic food color manufacturing units over aquatic biota.

Students with Ongoing Ph.D.- 07

❖ Six (06) months dissertation of 19 credits Non-Teaching Credit Course (NTCC):

More than 50 students of M.Sc. Environmental Sciences.

PHD THESIS EXAMINATION (EXTERNAL EXAMINER)

- “ECOLOGY OF LARGE CARNIVORES WITH INSIGHTS INTO HUMAN WILDLIFE CONFLICT ACROSS KASHMIR REGION OF J&K”, Department of Environmental Science, **Lovely Professional University, Punjab**, July 2026.
- “Impact of E-waste Pollution and Phytoremediation study nearby its processing unit in Moradabad”, Department of Botany, **Mahatma Jyotiba Phule Rohilkhand University, Bareilly**, July 2026.
- “ASSESSMENT OF THE IMPACTS OF COAL MINING ON WATER AND SOIL QUALITY IN THE VICINITY OF SINGRAULI COALFIELD”, Center for Environmental Study, **University of Allahabad**, June 2026.
- ASSESSMENT OF THE IMPACTS OF COAL MINING ON WATER AND SOIL QUALITY IN THE VICINITY OF SINGRAULI COALFIELD, Center for Environmental Study, **University of Allahabad**, April 2026.
- “Impact of Sustainable Built Environment on Demographics”, Amity School of Natural Resources and Sustainable Development, **AMITY UNIVERSITY UTTAR PRADESH, NOIDA**, February 2026.
- “Community characteristics, biomass and carbon stock assessment of plant species in eaglenest wildlife sanctuary, Arunachal Pradesh”, **NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE & TECHNOLOGY, NIRJULI (ITANAGAR), ARUNACHAL PRADESH**, July 2025.
- “Nitrate Contamination and Impact of Traditional Irrigation System on Groundwater Quality in the Middle Gangetic Plain”, School of Ecology and Environmental Studies, **NALANDA UNIVERSITY, RAJGIR, BIHAR**, April 2024.
- “Analysis of Paddy Residue Burning Practice Impact on Soil Properties of Rice-Wheat Agroecosystems of Karnal, Haryana”, School of Environmental Science, **JAWAHARLAL NEHRU UNIVERSITY, NEW DELHI**, May 2024.
- “Suitability of Industrial Effluent for the Irrigation of Bio-Energy Plan Ricinus Communis (Castor Bean) and Removal of Heavy Metals from Industrial Effluent.”Department of Environmental Science, **CENTRAL UNIVERSITY OF JHARKHAND, RANCHI, JHARKHAND**, June 2024.

PARTICIPATION IN ACADEMIC AND ADMINISTRATIVE COMMITTEES:

- Member of Committee Constituted to evaluate and examine reports of the last 5 years of 9 AICRP center, School of Agricultural Sciences, Nagaland University for signing of Umbrella Memorandum of Understanding between Nagaland University and Indian Council of Agricultural Research (Vide Notification No. NUL/RDC/Gen-24/2017-1758 dated 3rd July 2026).
- **Nodal Officer, SWAYAM**, Nagaland University (Vide notification NU/ACAD/169/2027-1654 dated 30th June 2026).
- **Transparency Officer (TO)** for HQ: Lumami, Nagaland University under the RTI act 2005(vide notification NO/NU/RTI/OFF/2018-1572 dated 23rd June 2026).
- **Nodal Officer for Net Zero Portal**, Nagaland University (vide notification NO. NU/ACAD/VC-CON-1/2018 dated 11th June 2026).

- Elected as **Vice President**, Nagaland University Teachers Association- Lumami (NUTA-L) for 2026-2028 in May 2026.
- **Chairman Selection Committee** for conduct of Interview for engagement of 01 Guest Faculty in the Department of Forestry, Nagaland University, Lumami (Vide Letter No.NU/ESTT-II/G-34/2022(Vol-II)-5846 dated 25/02/2026).
- **Member of the Selection Committee** constituted for selecting faculty for the post of Associate Professor in the Department of Environmental Science and Technology of the Central University of Punjab, Bhatinda.
- Chairman Board of Studies of Environmental Science from May 2023-May 2026.
- Member Board of Studies Department of Zoology
- Member Board of Studies Department of Botany
- Member Board of Studies Department of Forestry
- Member Board of Studies Department of Geography
- Member Board of Studies Department of Geology
- Member Board of Studies Department of Chemistry
- **Member Central Screening committee**, Nagaland University to examine the claims/objections received from the candidates for direct recruitment of various teaching posts of Professor, Associate Professor and Professor vide advertisement No.01/2024 dated 08th July 2024 and promotions under CAS, (vide Notification no. No. ESTT-II/ADVT-01 VOL-II/2016-3759 dated 23/10/2024).
- **Advisor-cum-chairman** Equal Opportunity Cell (EOC) (Vide Notification No. NU-35/SC/ST-EOC/2015-7324 dated 26th March 2024).
- **Member, State Advisory Committee**, Protection and Sustainable Management of Aquatic Resources in the North-Eastern Himalayan Region of India (NERAQ) Project.
- **Member of the selection committee** for the post of Assistant Professor (01 UR) in the Department of Environmental science at Nagaland University (Vide letter No.NU/ESTT-II/G-27/VOL-II/2015-124 dated 13/09/2023).
- Member Nagaland University Biodiversity Committee (vide notification no. F.2-139/ACAD/2005-765 dated 19/05/2023)
- Member Nagaland University official Language committee for Two years (vide notification no. NUL/HC-4/2010 (VOL.-II)-867 dated 25/5/2023)

PAPER/ POSTER PRESENTED IN CONFERENCE/ SEMINAR:

- Oral Presentation entitled, “**Biodegradation of Azo Dye Ponceau S by *Bacillus sp.* LPOC3 isolated from Municipal Solid Waste Compost**” in International Conference on Climate Change and Sustainable Development-pioneering paths in Environmental Sciences organised by School of Environmental Sciences, Jawaharlal Nehru University, New Delhi during 6-7th October 2025.
- Oral Presentation entitled, “**Exploring the impact of municipal solid waste compost treatments on heavy metal accumulation and health risks in vegetable crop growth**” in International Conference BICOHAS 25 scheduled on 26th feb-02nd March 2025 at University Putra Malaysia (UPM), Malaysia.
- Oral Presentation entitled “**Evaluation of Heavy Metal Accumulation and Health Risk Associated With Municipal Solid Waste Compost Treatments on the Growth of Selected Vegetable Crops**” in National Conference on Recent Trends in Environmental Pollution and Health (NCRTEPH 2024) on November 28-29, 2024 at Nagaland University, Hqrs: Lumami, Zunheboto, Nagaland.

- Oral Presentation entitled “**Evaluating the Health Risks of Spinach Grown in Municipal Solid Waste Compost**” in **International Conference on Innovations in Biotechnology for Sustainability** held on 23-25th November 2024 at Jawaharlal Nehru University, jointly organized by the School of Biotechnology, Jawaharlal Nehru University (JNU), New Delhi and the Biotech Research Society, India.
- Oral Presentation entitled “**Effects of Different Municipal Solid Waste Compost Treatments on the Growth of selected vegetable Crops**” in **5th World Environment Summit 2024** atNDMC Convention Centre, Sansad Marg, New Delhi held on 16-18th November 2024.
- Presented a research paper entitled “Valorisation of Municipal Solid Waste Derived Pellets for Energy Production” in **World Environment Summit 2022** held on 15-16 October, 2022 at Paintal Memorial Auditorium, Vallabh bhai Patel Chest Institute University of Delhi, Delhi (India).
- Presented a research paper entitled “Study On Growth of Vegetative Crops by The Application of MSWC” in **World Environment Summit 2020** held on 18-19 January, 2020 at Paintal Memorial Auditorium, Vallabhbhai Patel Chest Institute University of Delhi, Delhi (India).
- Presented a research paper entitled “Biomining and Bioremediation of Old landfills- A Case Study from Delhi” in **National Workshop-Environment and Society: Interlinkages and Co-Existence**, 27-28 February 2020 Hindu College, Delhi University, New Delhi.
- Presented a research paper entitled “Practicing Waste Management in India during COVID-19” International Conference On "**Global Sustainability Summit- The New Normal**"2020, 3-5 June 2020, Amity University, Noida.
- Presented a research paper entitled “Study of Nutritional Index of Municipal Solid Waste Compost (MSWC)”in **World Environment Summit 2020** held on 18-19 January, 2020 at Paintal Memorial Auditorium, Vallabhbhai Patel Chest Institute University of Delhi, Delhi (India).
- Presented a research paper entitled “ENVIRONMENTAL AND HEALTH IMPLICATIONS OF NANOPARTICLES” in **World Environment Summit 2020** held on 18-19 January, 2020 at Paintal Memorial Auditorium, Vallabh bhai Patel Chest Institute University of Delhi, Delhi (India).
- Presented a research paper entitled “CLIMATECHANGE AND CLEAN AIR” inInternational Conference On "**Global Sustainability Summit- The New Normal**"2020, 3-5 June 2020, Amity University, Noida.
- Presented a research paper entitled “Urban Agriculture and Its Impact On Environment”, in **National Conference on Environmental Challenges for ‘NEW INDIA’** held on 2-3 June, 2018 at Dr. Bhim Rao Ambedkar College, Delhi University, Delhi.
- Presented a research paper entitled “Biodiesel: A promising Renewable Energy Resource in **National Conference on Environmental Challenges and Sustainable**

Development (EECSD-2018) held on 21-23 March, 2018 in the National Conference held at University of Delhi.

- Presented a research paper entitled “The disappearing mangrove cover of Indian Sunderbans in **National Seminar on Environmental Challenges of India** held on December 27 - 28, 2017 Organized by Environment & Social Development Association (ESDA).
- Presented a Paper entitled “Cost effective removal of heavy metals from industrial waste water” in **Environmental Challenges and Solutions (NC-ECS 2015 at CSIR-NML, Jamshedpur, India)**” on November 05-06, 2015.
- Presented a poster entitled “Bioremediation of Dyes in Textile Effluent: An Effective Method of Treatment” in **National Symposium on Frontiers in Modern Biology at Harsingh Gour Central University, Sagar, M.P., India** during 24-25 march 2014.
- Presented a poster entitled “Role of Composting in Municipal Solid Waste Management” in **National Symposium on Frontiers in Modern Biology at Harsingh Gour Central University, Sagar, M.P., India** during 24-25 march 2014.
- Oral presentation of paper entitled “Biodecolorization of Azo dye, Acid Orange 10, using different bacterial Strains” at **2nd International Conference on Environmental Science and Technology, Singapore** held on 26th to 28th February 2011.
- Oral presentation of paper entitled “Biological decolorization/removal of Azo dyes from waste water effluents” in young scientist’s session in a **National Conference on Environmental Problems and Challenges to Plant Biologist**, during 4-5 February, 2011 organized by Udai Pratap (Autonomous) College, Varanasi (U.P.)
- Presented a paper entitled “Biodegradation of Azo dye, Orange G by an unknown isolated bacterium AT02” in an **International conference on Genomic sciences** held at Madurai Kamaraj University, Madurai, from 12- 14th November 2010.
- Poster Presentation of Paper entitled “Biodegradation of Methyl Red by *Klebsiella pneumonia*” in the **National Conference on “Emerging Paradigms in Biochemical Engineering”** at School of Biochemical Engineering, Indian Institute of Technology, Banaras Hindu University, Varanasi, held during 09-10th of October 2009.
- Poster Presentation of Research Paper on “Decolorization of Distillery Effluent by *Aspergillus niger*” at the **International Conference on “Water Crisis-Challenges & Opportunities”** held at NEERI, Nagpur during 28-29 February 2008.

CONFERENCES /SEMINAR PARTICIPATED/ATTENDED:

- Participated in **Science Academics Lecture Workshop** entitled “**Traditional Knowledge, Medicinal Plants and Biodiversity Conservation**” organized by the Department of Forestry, Nagaland University, Lumami, Nagaland-798627, India, sponsored by INSA, New Delhi; IASc, Bengaluru; NASI, Prayagraj on 13th-14th March 2024.
- Participated in **2nd Congress of Indian Laboratories “Role of Laboratory Services in Growth of Economy & health of India”** held at THE ASHOK, Chanakyapuri, New Delhi on April 19, 2018

- Attended **ASSOCHAM 2nd Conference on Water, Sanitation and Hygiene (WASH) for ALL: "Innovative Approaches"** on Wednesday, 19th July 2017 at New Delhi.
- Attended **conference on Water Desalination for 21st Century- Perspective, Opportunities and Challenges** on 28th July 2016 at PHD Chamber, New Delhi.
- Attended **conference on “Emerging Smart Solutions in Water and Sanitation”** organized by PHD Chamber of Commerce & Industry on February 10th, 2016 at PHD House, New Delhi.
- Attended **conference on ‘Earthquake Disaster Mitigation in India (EDMI-2015)’** held on July 10, 2015 at: FICCI, Federation House, Tansen Marg, New Delhi.
- Participated in **International conference on Science and Geopolitics of Arctic-Antarctic-Himalaya (SaGAA III) 2015** held at India International Center, New Delhi during 29-30th September 2015.
- Participated in **National Seminar on Recent Advances in the Development of Fermented Foods** organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, from April 8-9, 2011
- Participated and presented a paper in **International conference on Genomic sciences** held at Madurai Kamaraj University, Madurai, from 12- 14th October 2010.
- Attended the **International Conference on Separation Processes** from 20 to 22 October 2009 at Department of Chemical Engineering and Technology, Institute of Technology, Banaras Hindu University, Varanasi.
- Attended **National Seminar on Fertilizer Technology: 21st Century Challenges and options** from March 07 to 09, 2008.
- Participated in **59th Indian Pharmaceutical Congress** held at BHU, Varanasi from 20th to 23rd December 2007.
- Attended the **International conference on “Environmental Impact and Risk Assessment”** held at NEERI, Nagpur, during 25-26 October, 2007.

SPECIALIZED TRAINING:

- Participated in the **Faculty Development Programme** organized by the Internal Quality Assurance Cell, Nagaland University held during 24th -28th March, 2025.
- Actively participated in 7-Day DST Sponsored STUTI Training Program from 24th – 30th November, 2022 Organised by SATHI, Banaras Hindu University, Varanasi.
- Completed online **Training Programme on “Basics of Disaster Management”** jointly organised by Department of Geology, Central University of South Bihar (CUSB) Gaya, Bihar and National Institute of Disaster Management (NIDM) Ministry of Home Affairs, Govt. of India from 27th to 29th January, 2021.
- Completed online **Faculty Development Program on “Environmental Impacts of Covid-19 Pandemic: Challenges and Future Research”** Organized by University

School of Environment Management, Guru Gobind Singh Indraprastha University from 27th May-1st June, 2020.

- Participated in **Two Week Interdisciplinary online Faculty Development Programme on “Earth, Environment and Space Sciences for Mankind”** organised by Department of Geography, Faculty of Earth, Environment and Space, Chaudhary Bansi Lal University, Bhiwani from May 21-30, 2020.
- Participated as Delegate in the **one week workshop on Yoga for Health** from June 18-22, 2018 at Amity University, Noida (U.P.), India
- Participated in the **FDP on Intellectual Property Rights (IPR) at Amity Institute of Information Technology, Amity University U.P.**, and Organized by Consortium of Women Entrepreneurs of India (CWEI) New Delhi on dated 06th July 2017.
- Attended **UGC 74th Orientation course at HRDC Banaras Hindu University, Varanasi** from 24th May – 20th June 2016.
- Attended Training Programme on **“Applied Statistical Methods for Biological Sciences”** held from 4th-10th April, 2014 in **DST-Centre for Interdisciplinary Mathematical Sciences (CIMS), Banaras Hindu University (BHU), Varanasi.**
- Actively Participated in a workshop on **“Mainstreaming Climate Change Adaptation in Development”** organized at **IIPA, New Delhi** from 25th November to 29th November 2013.
- Undergone training under **Entrepreneurship Skill Development Programme in Biotechnology** during 2nd September 2011 to 13th October 2011 Organized at TBI, Indian Institute of Technology, Banaras Hindu University and supported by Ministry of MSME, Government of India.
- Completed the basic training course on **“Remote Sensing, Geographical Information System and Global Positioning System”** conducted by Indian Institute of Remote Sensing (NRSE), Dehradun sponsored by NNRMS (IIRS), organized by Academic Staff College, BHU, Varanasi under the aegis of Department of Space, Government of India from 4th October 2010 to 9th December 2010.
- Participated in **“Faculty development programme on Research and Data analysis using SPSS”**, organized by Department of Statistics (DRS-I), DST-CIMS, Banaras Hindu University and SPSS South Asia during 27-28 January, 2011.
- Participated in the **72th BRNS-IANCAS National Workshop on “Radiochemistry and Applications of Radioisotopes”** sponsored by Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy and Conducted jointly by Department of Applied Chemistry, Indian Institute of Technology, Banaras Hindu University, Varanasi & Indian Association of Nuclear Chemists And Allied Scientists (IANCAS) during February 15-23, 2010.
- Attended the **National Seminar and Workshop on “Metabolic Networks and Drug Designing”** held at MMV, BHU during 28-30 November 2008.
- Attended **National Seminar-cum-Workshop on “Environmental Ethics”** held by Malviya Centre for Ethics and Human Values at Banaras Hindu University during the Period March 17-18, 2007

- Participated in the “Entrepreneurial Awareness camp” of E.D.I, Ahmedabad held at BHU during 1-3 March, 2006.

AREAS OF INTEREST:

- Waste Water treatment
- Ecotoxicology
- Bioremediation
- Solid Waste Management
- Sustainable Development

MEMBERSHIP:

- Life Membership of NATIONAL ENVIRONMENTAL SCIENCE ACADEMY with L/M No. 2791.
- Life Membership of The Biotech Research Society, India (BRSI-www.brsi.in) with **membership No.: LM 2912.**
- Member, State Advisory Committee, Protection and Sustainable Management of Aquatic Resources in the North-Eastern Himalayan Region of India (NERAQ) Project.
- Membership of **Vijnana Bharati (VIBHA)** Meerut Prant.
- Member of Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES) with **Membership NO.: 200184.**
- Member of International Association of Computer Science and Information Technology (IACSIT) with **Membership No.: 80341562.**
- Life membership of ENVIRONMENT AND SOCIAL DEVELOPMENT ASSOCIATION (ESDA), New Delhi with **Membership No.: L-166.**

OTHER PARTICIPATION:

- Attended training program on
 - **OHSAS 18001**
 - **ISO 9001**
 - **FIRE CONTROL**
 - **WATER SAMPLING AND TESTING**
 - **PRINCIPLES AND WORKING OF EFFLUENT TREATMENT PLANT (ETP)**
 - **AMBIENT AND STACK AIR MONITORING**

COMPUTER PROFICIENCY: Basic knowledge of computer, MS office and mathematical tools (Response Surface Methodology, Artificial Neural Network etc.)