

## AKANKSHA MISHRA, Ph.D.

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### Academic Qualification

- **Ph.D. in Environmental Sciences** from School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 2011.
- **M.Phil. in Environmental Sciences** from School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 2006.
- **M.Sc. in Environment Management** from School of Environment Management, G.G.S. Indraprastha University, Delhi, 2003.
- **B.Sc.** from Miranda House, University of Delhi, Delhi, 2001.

### Work Experience

- **June 2023- present:** Working as **Assistant Professor**, Department of Environmental Studies, **Ramanujan College**, University of Delhi, Delhi.
- **August 2014-May2023:** Worked as **Assistant Professor (Ad-hoc)**, Department of Environmental Science, **Kamala Nehru College**, University of Delhi, Delhi.
- **January 2011–June 2013** Worked as a **Research Associate** for a DST-funded project titled “Geochemistry of iron nodules in the Ganga plains and the implications of the elemental dynamics, Palaeoclimate and environment” in the School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.
- **July 2003-August 2004** Worked as an Assistant Programme Officer in **Toxics Link**, a non-profit making, environmental organization wherein work responsibilities included, evaluation of compliance status of the MSW Rules 2000 by 25 municipalities across India and documentation of successful community-based waste management projects across the country.

### Publications

- Mishra, Akanksha**, 2018. Phosphorus: a limiting nutrient with limited resource. *Akademios*, XII, 2018, 34-46. ISSN: 2231-0584.
- Srivastava, P., Kumar, A., **Mishra, A.**, Meena, N.K., Tripathi, J.K., Sundriyal, Y P, Agnihotri, R., Gupta, A.K., 2013. Early Holocene monsoonal fluctuations in the Garhwal higher Himalaya

as inferred from multi-proxy data from the Malari paleolake. *Quaternary Research*, 80(3), 447-458. ISSN: 0033-5894.

- Mishra, Akanksha**, Tripathi, J. K., Mehta, P., Rajamani, V., 2013. Phosphorus distribution and fractionation during weathering of amphibolites and gneisses in different climatic setups of the Kaveri River catchment, India. *Applied Geochemistry*, 33, 173-181. <http://dx.doi.org/10.1016/j.apgeochem.2013.02.010>. ISSN: 0883-2927.
- Dutta, T., Kaur, H., Singh, S., **Mishra, A.**, Tripathi, J. K., Singh, N., Pareek, A., Singh P., 2011. Developmental changes in storage proteins and peptidyl prolyl cis-trans isomerase activity in grains of different wheat cultivars. *Journal of Food Chemistry*, 128, 450-457. ISSN: 0308-8146
- Mishra, Akanksha** and Tripathi, J.K., 2010. Bioavailability of phosphorus and climate change. *ENVIS Newsletters*, 16(2), 2-10. <http://jnuenvis.nic.in/newslet-index.html>. ISSN: 0974-1364.

## Publications: Online

- Mishra, Akanksha**, 2019. Chapter on **Hazardous and E-waste management**, for the course Environmental pollution, Control and Management (ME 015) for M.Sc. (Environmental Science) Programme, of **IGNOU, School of Interdisciplinary and Transdisciplinary Studies**. <https://egyankosh.ac.in//handle/123456789/82834>
- Mishra, Akanksha**, 2020 Chapter on **Environmental Sustainability** for the course) for M.Sc. (Environmental Science) Programme, of **IGNOU, School of Interdisciplinary and Transdisciplinary Studies**. <http://egyankosh.ac.in//handle/123456789/85686>

## Guest Lectures/Counselling Sessions

- Guest lecture on **“Waste Management and Sustainable Lifestyle”**, organised by **Prakriti**, the environment club of the Delhi College of Arts and Commerce on 27<sup>th</sup> April, 2023.
- Guest lecture on **“Renewable Energy and Mission LiFE”**, organised by the National service Scheme wing of Kamala Nehru College on 18<sup>th</sup> January, 2023.
- Conducted an interactive web-counselling session on **“Non-Renewable Energy Resources, Usage and Concerns”** for PG Diploma in Sustainability Science, conducted by School of Interdisciplinary and Transdisciplinary Studies, Indira Gandhi National Open University (IGNOU) on January 24, 2022.
- Conducted an interactive web-counselling session on **“Human Impact on Natural Resources with Forest Resource in Perspective”** for PG Diploma in Sustainability Science, conducted by School of Interdisciplinary and Transdisciplinary Studies, Indira Gandhi National Open University (IGNOU) on January 21, 2022. YouTube link is <https://youtu.be/RYC8c1hGATY>
- Conducted an online counselling session on “Challenges in Solid Waste Management” for the students of the certificate course on Solid Waste Management offered by School of Interdisciplinary and Transdisciplinary Studies, Indira Gandhi National Open University (IGNOU) on May 30, 2021.
- Conducted an online counselling session on “Effects of Solid Waste on Environment” for the students of the certificate course on Solid Waste Management offered by School of Interdisciplinary and Transdisciplinary Studies, Indira Gandhi National Open University (IGNOU) on October 7, 2020.

## Professional and Research Skills

- **Instruments handling:** Hands on working experience on **ICP-AES** (Inductively Coupled Plasma Atomic Emission Spectrometer), **XRF** (X-Ray Fluorescence Spectrometer), **AAS** (Atomic Absorption Spectrometer), **XRD** (X-Ray Diffractometer), Microwave accelerated reaction system, Refrigerated centrifuge system, Spectrophotometer and other common laboratory instruments.
- **Analytical geochemistry:** Sediment/soil sampling, Digestion (Open and microwave) for major and trace elements analysis, grain size separation and analysis for texture, mineralogical composition and phosphorus fractionation.
- **Computers:** Proficient with software like MS-Office, SPSS, Corel Draw, Adobe Illustrator and Sigma Plot.

## Poster and Paper Presentations

**Mishra Akanksha** and Tripathi, Jayant, March 29-30, 2016. **Research paper** presentation on Phosphorus: Limiting nutrient with limited resource in **National Seminar on Emerging Economics and Challenges to Sustainability towards Developing Nations** organized by Sri Aurobindo College, University of Delhi.

**Mishra, Akanksha** and Tripathi, Jayant Kumar, February 18-19, 2012. **Research paper** presentation on Phosphorus cycling in nature: a resource and its sustainability. **National seminar on Frontiers in Environmental Research** organized by Department of PG studies and research in chemistry, Govt. Shyam Lal Pandviya Post graduate college, Gwalior, Madhya Pradesh.

**Mishra, Akanksha** and Tripathi, Jayant Kumar, December 9-10, 2011. **Poster** on Phosphorus: Its importance and natural existence. **National Conference on Environmental degradation: Issues and Challenges**, organized by Department of Geography, B.S.R Govt. Arts College, Alwar, Rajasthan.

**Mishra, Akanksha** and Tripathi, Jayant Kumar, November 24-26, 2011. **Poster** presentation on fractionation and distribution of phosphorus in the Kaveri River sediments. **National Seminar on Modern and Palaeo sediments: Implication to Climate Water Resources and Environmental Changes & XXXVIII Convention of Indian Association of Sedimentologists** held in School of Environmental Sciences, JNU.

## Contribution to College Corporate Life

- **Convenor of the Green Beans Society**, the Environment Club of Kamala Nehru College (November 2022, continuing)
- **Co convener, Green Beans Society**, the Environment Club of Kamala Nehru College (August 2019- October, 2022)

- **Convenor of the Green Beans Society**, the Environment Club of Kamala Nehru College (July 2018-July 2019).
- Students' Advisor for the **JNU-Disaster Research Programme** led **Disaster Vulnerability and Community Resilience-Participatory Neighbourhood Study of South Delhi** from September 2016 to December 2016, conducted by the Green Beans Society, Kamala Nehru College.
- Organising Member of the **Add-On Certificate Course on Environment** in collaboration with the Green Beans Society, the Environment Club of Kamala Nehru College in **Aug-Oct, 2016**.
- Students' Advisor for the **JNU-Disaster Research Programme** led Community Disaster Resilience study conducted from **September 2015 to June 2016**.
- Organising Member of the **Add-On Certificate Course on Environment** in collaboration with the Green Beans Society, the Environment Club of Kamala Nehru College in **Feb-Mar, 2015**.

### Fellowships and Awards

- Recipient of **Junior Research Fellowship** from the Indian Council of Medical Research in 2005.
- Award for the **highest scorer** during I, II and III years of B.Sc. in Miranda House College, University of Delhi, 2001.
- Recipient of the **Best Student Award** by the Department of Botany, Miranda House College, University of Delhi, 2001.
- **Mathematics Olympiad certificate** at class X level, 1995.

### Seminars and Workshops participation

- Successfully completed one week capacity building FDP/workshop on **“Enhancing Administrative Efficiency in Higher Education Institutes”** organised by the Teaching Learning Centre, Ramanujan College in collaboration with Janaki Devi Memorial College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching from November 16 to 22, 2021.
- Successfully completed, one week, online Interdisciplinary Faculty Development Programme **“Youth and Climate Change”** organised by the Teaching Learning Centre, Ramanujan College, under the aegis of Ministry of Education in association with Bhaskaracharya College of Applied Sciences, University of Delhi and Catholocate College postgraduate and Research Department of Botany under the aegis of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching from 27<sup>th</sup> October -3<sup>rd</sup> November'21.
- Successfully completed one-week online workshop on **“Skill Enhancement and Capacity Building for Non-Teaching and Teaching Staff”** organised by the Teaching Learning Centre, Ramanujan College, under the aegis of Ministry of Education, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching from January 22-28, 2021.

- Participated in an online workshop on **“Understanding the seven criteria for NAAC-SSR”** as per the latest NAAC guidelines under the UGC *Paramarsh* scheme conducted by Kamala Nehru College from August 6-8, 2020.
- Successfully completed an online workshop on **“Calligraphy Art”** conducted jointly by IQAC, Kamala Nehru College and Indian Institute of Craft and Design, under UGC *Paramarsh* scheme from August 4-7, 2020.
- Successfully completed two weeks Faculty Development Programme on **“Advanced Concepts for Developing MOOCs”** organised by Teaching Learning Centre, Ramanujan College, sponsored by Ministry of Human Resource Development Pandit Madan Mohan Malviya National Mission on Teachers and Teaching from July 2-17, 2020.
- Participated in International webinar on **“Epidemics and Pandemics in History: South Asian Experience”** organised by the department of History, Kamala Nehru College on June 25, 2020.
- Participated in **“1st International (Virtual) Symposium on Geo-ethics”** organised by International Association for Promotion of Geo-ethics (IAPG) India Chapter, in collaboration with in association with National Institute of Disaster Management and Amity University Gurugram on June 14, 2020.
- Participated in webinar on **“Dil-o-Dilli”** organised by the Department of History, Kamala Nehru College in association with INTACH on June 11-12, 2020.
- Participated in a webinar on **“CoViD 19 Pandemic: A crisis of human health or planet health”** organised by Maharaja Agrasen College on June 6, 2020.
- Participated in a webinar on **“Shodh-Shuddhi, Web-based plagiarism detection software-URKUND”** organised by B.R. Ambedkar Central Library, Jawaharlal Nehru University in association with INFLIBNET Centre, Gandhinagar and e-Galactic on May, 29, 2020.
- Participated in a National webinar on **“Geopolitics of Coronavirus Pandemic”** conducted by the Department of Economics, Kamala Nehru College on May 25, 2020.
- Participated in a National webinar on **“Domestic Violence during Lockdown of Workforce: Concerns, Issues and Legal Remedies”** conducted by the Department of Commerce, Kamala Nehru College on May 22, 2020.
- Successfully completed an 8 hours **online Faculty Development Programme on Emotional Intelligence** conducted by ICT Academy from May 13-18, 2020.
- Participated in an International webinar on **“Importance of Cyber Security in the World of Pandemics and Social Media”** conducted by Department of Economics, Kamala Nehru College on May 6, 2020.
- Participated in a one-day workshop on **“Data analysis in R using STATCRAFT”** conducted by the Department of Geography, Kamala Nehru College in collaboration with Predictive Analytics Solution Private Limited, Bangalore on November 11, 2019.

- Participated in an ICSSR sponsored, National Seminar on **“Environmental Crisis, Ethics and Social Justice: A critical Perspective”** held at Kamala Nehru College, University of Delhi, on April 4-5, 2019.
- Participated in an International Workshop on **“Reinforcing Coastal Zone Management: Saving Lives, Habitat and Livelihood of People”** held at **Special Centre for Disaster Research, JNU**, on November 15-17, 2018.
- Participated in **ECO-Talk** on Environment Protection and Energy Conservation organised by Petroleum Conservation Research Association (**PCRA**), New Delhi on June 5, 2018.
- Contributed for course material development for MEV-015 Environmental Pollution, Control and Management by IGNOU as an expert for audio recording on **“Mercury in our Environment”** on May 10, 2018.
- International Workshop on **“Reinforcing Institutional Decision Making in Disaster Preparedness and Mitigation”** organised by Special Centre for Disaster Research, Jawaharlal Nehru University, New Delhi. (February 16-18, 2018)
- **Workshop on “DELNET-Resources and Services: Boundless Possibilities for Research and Reference”** organised by **DELNET- Developing Library Network, New Delhi** in collaboration with **Internal Quality Assurance Cell, Kamala Nehru College, New Delhi** in Kamala Nehru College. (May 5, 2017).
- **Workshop on “Disaster vulnerability and community resilience: sharing expertise and experience”** conducted by the Green Beans Society, Kamala Nehru College in collaboration with JNU-Disaster Research Programme (January 21, 2017)
- **National Conference on “Himalayan Perspectives: People, Land and Resources”** organised by Department of Geography, Kamala Nehru College, Delhi University (April 12, 2016).
- **BHUVAN Workshop-National Remote Sensing Centre** organized by Kamala Nehru College, Delhi University (March 8, 2016).
- **International Humboldt Kolleg on Management of Water, Energy and Bio-resources in changing Climate Regime: Emerging Issues and Environmental Challenges** organized by School of Environmental Sciences, Jawaharlal Nehru University, New Delhi (February 8-9, 2013).
- **XIX International Conference of RSA**, organized by Rajasthan Sociological Association and Department of Sociology, B.S.R. Governments Arts College (December 14-16, 2012)
- **National seminar on Environmental Pollution and Mitigation Strategies** organized by School of Environmental Sciences, Jawaharlal Nehru University, New Delhi (March 28-29, 2012).
- Training programme on **‘GIS application in Hydrogeology and Environmental Geology’**, conducted by the School of Environmental Sciences, JNU (February, 16-18, 2010).

- DST sponsored training programme on **‘Application of Radiogenic Isotopes in Geochronology and Geochemistry’**, conducted by the Department of Earth Sciences, Pondicherry University (December 15-20, 2008).
- Skill Share Workshop on **‘Upscaling People’s Participation in Solid Waste Management’** conducted by Toxics Link, New Delhi (August 26-29, 2003).
- Training programme on **Environmental Advocacy** held at G.G.S. Indraprastha University (March 10, 2003).
- 50 hours certificate course on **Energy and Environment** awareness conducted by **Centre for Science Education and Communication, University of Delhi at Miranda House College (1999-2000)**.

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