



AKANKSHA SRIVASTAVA

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Date of Birth: 06/09/1988

OBJECTIVE

Environmental Science & Engineering professional with a PhD and M. Tech., specialising in water supply benchmarking, urban water supply systems, and environmental sustainability. Seeking a teaching and research position to contribute to high-quality education, advance interdisciplinary research, and support innovative solutions to environmental challenges.

EDUCATIONAL QUALIFICATION

Education	Year	Subjects	Board/University	Percentage/GPA
PhD	2026	Environmental Science and Engineering	Dr. A.P. Abdul Kalam Technical University	Awarded
M. Tech	2013	Environmental Science and Engineering	Bundelkhand Institute of Engg. and Technology Jhansi, UP	67%
B. Tech	2011	Biotechnology	Amity University, UP	6.14

PROJECT DETAILS

- PERFORMANCE EVALUATION OF WATER SUPPLY SYSTEMS IN INDIA**

Developed an integrated framework for performance assessment and benchmarking of urban water utilities using Water Utility Performance Index (WUPI), PCA-based data reduction, hybrid aggregation techniques, and multi-criteria decision-making approaches (MOORA and MAIRCA). The research also incorporated consumer perception-based evaluation through KPI assessment and the development of the Consumer Satisfaction Index (CSI) to enhance understanding of service performance and sustainable water supply management. The developed framework integrates quantitative performance indicators, consumer feedback, and advanced decision-support methodologies to provide a holistic evaluation of water utilities. It facilitates comparative benchmarking, identification of critical service deficiencies, and formulation of targeted strategies for improving operational efficiency, reliability, and sustainability of urban water supply systems.

- AN APPROACH TO E-WASTE MANAGEMENT-STEPS TOWARDS A BETTER TOMORROW**

DESCRIPTION: The main aim of the project is to highlight the national and global regulatory regime for the management and disposal of e-waste in India. Also, bring out the importance of recycling and proper disposal of huge e-waste produced in the IT cities of India like Bangalore, Chennai and other major cities like Delhi, Mumbai, etc. The project aims to collect such waste all along the city and then propose a proper place to install plants for recycling and dumping without harming the environment. It's a huge challenge in the world and needs attention as well.

SEMINAR AND CONFERENCE ATTENDED

- International conference on “**Ostwald’s 100 years of Catalysis in Chemical Research**” organized by Sam Higginbottom Institute of Agriculture, Technology & Science, Allahabad
- Seminar on “**Computer Aided Drug Designing & Development**” organized by BCS-InSilico Biology, Lucknow.
Role of bioinformatics in translational medicine, with the technology touching every field Medicine can well be improved with the help of bioinformatics.
- 2nd Annual International conference & Exhibition 2023, “Water Security & Sustainability”
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WORKSHOP ATTENDED

- Attended a 5-day workshop on ‘**Statistical Techniques and R- Software**’ organised by IITK during September 08th to 12th, 2016.
- Attended an International Conference on “Modelling of Environmental and Water Resources System” held at HBTU Kanpur from March 24 to 26, 2017.
- GIAN Training Workshop on “Remediation & Management of Polluted Groundwater Sites”.
Department of Hydrology, IIT-R
- Attended a one-day National Workshop on “**From Waste to Energy the Recycle, Reuse and Recovery**” held at HBTU Kanpur on March 30th -2017
- The international workshop on “Recent Advances in Biometrics & Fingerprints” was organized by Sam Higginbottom Institute of Agriculture, Technology & Science, Allahabad.
- Workshop on “**Gene Finding and Genome Comparison**” organized by BCS-InSilico Biology, Lucknow.
- The workshop on “Computer Aided Drug Designing” was conducted by Techno Concept, and the details of Hyperchem software were learnt.
- Workshop on “**Environment Conservation**” at **Environmental Directorate, UP.**
- Attended 2nd “**Annual International Conference & Exhibition 2023**” as a Speaker, **Water Security and Sustainability October 6&7, 2023.**

COMMUNITY ACTIVITIES

- Member of AMI (Association of Microbiologists of India)
- Life membership of the Indian Association of the Hydrologists, Roorkee. (LM-1909)
- Membership in AWWA, India (American Water Works Association)

ONLINE COURSE

- CERTIFICATE ON COMPLETION OF, **SPECIALIZED MODULES ON CITIES AND CLIMATE CHANGE** from UN CC: Learn, close collaboration with UN-Habitat and UNITAR.
- CERTIFICATE OF PARTICIPATION ON COMPLETION OF **ONLINE COURSE, INTRODUCTION TO ENVIRONMENTAL GOVERNANCE**, issued by UNITAR AND UNEP.
- ONLINE COMPLETION, **ACHIEVING SUSTAINABLE DEVELOPMENT GOALS ON WATER and SANITATION**, by ADB INSTITUTE

Experience

Guest Faculty in IET (Institute of Engineering and Technology) in the Civil Engineering Department.

PUBLICATION

- Srivastava, A. and Parmar, D. (2022). “Development of water utility performance index using hybrid aggregation technique for water supply systems in India.” *Environment, Development and Sustainability*, Springer, <https://doi.org/10.1007/s10668-022-02616-9> (in press) (available online) (SCIE) (Impact factor-4.08) (Q1)
- Srivastava, A., Parmar, D. and Pamucar, D. (2023). “Comparing multi-criteria models for ranking the Performance of India’s water supply utilities.”, *Utilities Policy*, 84, October 2023, 101652, <https://doi.org/10.1016/j.jup.2023.101652> (SCI) (IF 4.0), Q1
- Srivastava, A. and Parmar, D. (2023). Paper titled “Application of MOORA MCDM to carry out benchmarking of Indian Water Utilities” presented at 2nd Annual International Conference and Exhibition 2023 on “Water Security and Sustainability” organized by AWWA India during October 6-7th 2023 at Jaipur.

REFERENCES

Prof: Dipteek Parmar

Designation: Professor

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Dr. Jahangeer Tomar

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Lincoln, Community and Regional
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