

Jasir Mushtaq, Ph.D



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Education

2021

Ph.D in Civil & Environmental Engg.
National Institute of Technology Srinagar,
India

2015

M.Tech in Environmental Engineering
NIILM University, India

2013

B.Tech in Civil Engineering
Maharashi Dayanand University, India

Technical Skills

- SPSS, ArcGIS Software,
- Origin, Minitab,
- Basics of MATLAB & Python
- AutoCAD (2D+3D)
- Total Station, Auto Level
- Microsoft Office, Microsoft PowerPoint, MS Excel, Adobe Photoshop,
- Excellent in the latest operating systems, networking, software's, utilities and productivity tools
- Diploma in Computer Application

Soft Skills

- Good verbal and written communication skills
- Leadership
- Time management
- Critical thinker
- Ability to handle stress and pressure
- Mentoring/Advising
- Mental Health
- Motivation
- Teamwork

Professional Summary

A dedicated and accomplished Assistant Professor boasting more than three years of teaching expertise in Civil and Environmental Engineering academia, coupled with a strong foundation in industrial applications. I have a holistic perspective that integrates theoretical concepts with real-world practices, preparing students to excel in both academia and the professional engineering landscape.

Experience

Institute of Technology, Kashmir University

Lecturer

Oct, 2023 to Present

Government College of Engineering and Technology-Kashmir

Assistant Professor

Nov 2021 to Oct,2023

National Institute of Technology ,Srinagar

Research Scholar & Part-time Teaching Assistant

April 2016 to July ,2021

Roles & Responsibilities

- Research in the field of Water Resources & Environmental Engineering.
- Conducted teaching classes for the UG/PG Students in Civil Engineering/allied subjects in a disciplined environment of interactive learning with a focus on their academic and overall personality development.
- Supervised many projects for B. Tech and M. Tech students.
- Creating the laboratory manuals and conducting practical classes educating students in performing practical and recording results /writing reports.

Technometer, Abu Dhabi

Site Engineer

April 2013 to March ,2014

Research & Academic Projects

Doctoral Researcher (2016 to 2021)

Department of Civil Engineering, National Institute of Technology, Srinagar
Thesis title: GIS-Based Approach and Characterization Analysis of Municipal Solid Waste in Western Himalayan Region.

M. Tech in Environmental Engineering (2014 to 2015)

Department of Civil Engineering, NIILM University, Haryana.
Thesis title: Watershed Management of Rafiabab-A Case Study.

M.Tech/B.Tech Guidance

- Guided 10 M.Tech and 30 B.Tech Projects in the fields of Solid Waste Management, River Meandering, Flood Analysis, water quality, river meandering and utilization of waste in concrete and roads.

Invited Technical Talks/ Lectures

- Implementation of Solid Waste Management in Rural Areas of Kashmir under Swacch Bharat Mission (G) 2.0, Govt. of India at Taj Vivanta on 11 February, 2023
- Construction and Demolition Waste Management-Global Scenario at NIT Srinagar, India on 21 January, 2023
- Post Disaster Disposal of Solid Waste: Global Scenario at NIT Srinagar, India in June, 2022
- Future Opportunities for B.Tech Students in Research at SSM College of Engineering and Technology, India on May 2022

Distinctions & Fellowships

- Received Fellowship for doing Ph.D from Ministry of Human Resource Department, Govt. of India.
- Received Outstanding Mentorship by Department of Science and Technology, India

Research Interests

- Solid Waste Management
- Spectral and Thermal Analysis of Waste
- Greenhouse Gases Accounting
- Microplastics Climate Change
- Recycling of Construction Demolition Waste
- Environmental Impact Assessment
- Emerging Environmental Pollutions
- Water quality and wastewater treatment
- Modelling of MSW Management and Water Quality
- Remote Sensing & Geographic Information Systems in Environmental Management

Subjects taught (UG/PG)

- Environmental Engineering, I & II
- Engineering Geology
- Environmental Pollution and Control Engineering
- Building Drawing
- Environmental Impact Assessment
- GIS and Remote Sensing
- Estimation and Costing
- Water Power Engineering
- Surveying I & II
- Introduction to Civil Engineering
- Disaster Management
- Watershed Management
- Design Thinking and Innovation

Selected International Journal Publications

1. **Mushtaq, J.**, Dar, AQ and Ahsan N 2024. Characterization investigation on organic compost of municipal solid waste using physiochemical, spectroscopic and thermal methods at different stages, **International Journal of Environment and Waste Management, Inderscience.**
2. **Mushtaq, J.**, Dar, AQ and Ahsan N 2020. Spatial-temporal variations and forecasting analysis of municipal solid waste in the mountainous city of north-western Himalayas. **SN Applied Sciences, Springer.**
3. **Mushtaq, J.**, Dar, AQ and Ahsan N 2020. Physio-chemical characterization of municipal solid waste and its management in high-altitude urban areas of North-Western Himalayas. **Waste disposal and sustainable energy, Springer**
4. **Mushtaq, J.**, Dar, AQ and Ahsan N 2020. Geospatial mapping and SWOT analysis of municipal solid waste management: A case study of Srinagar city. **Solid State Technology.**
5. **Mushtaq, J.**, Dar, AQ and Ahsan N 2020. Physio-chemical characterization and quantification of municipal solid waste in high-altitude Srinagar City of North-Western Himalayas. **International Journal of Environment and Waste Management, Inderscience.**
6. **Mushtaq, J.**, Umar, S., Malik, M.A., Aasif, M. and Ahmad, T., A 2018. A Case Study of Watershed Management for Rafiabab-B Watershed, **International Journal of Pure Applied Bioscience.**6(3): 95-104.
7. Ahmad Aijaz., **Mushtaq, J.**, Qayoom A.Q., Mahesh Patel 2022. A Quantitative Investigation of Methane Gas and Solid Waste Management in Mountainous Srinagar City-A Case Study. **Journal of Material Cycles and Waste Management, Springer.**
8. Almohana, A I., Abdul wahid, M Y., Galobardes, I., **Mushtaq, J.**, Almojil, Fahad, S., 2022. Producing Sustainable Concrete with Plastic Waste: a review. **Environmental Challenges, Elsevier**
9. Umar, S., Khan, J. N., Malik, M. A., Manzoor, S., & **Mushtaq, J. (2018).** Prediction of Runoff in Dachigam Catchment and Generation of Time Series Autoregressive Model. **Current Journal of Applied Science and Technology,** 27(5), 1-12.
10. Bilal, M., Kaur, S., & **Mushtaq, J. (2023).** Adsorption investigation of physico-chemical characteristics of different water samples by coalesce coconut shell. **International Journal of Environmental Engineering,** 12(1), 1-14.
11. Malik, M. A., Wani, M. A., Umar, S., & **Mushtaq, J. (2021).** Land use/land cover analysis based prioritization of micro watersheds of Jhelum basin, North Western Himalayas using Geospatial Techniques. **Journal of Soil and Water Conservation,** 20(4), 395-401.

Publication Under Review

1. **Mushtaq, J.**, Shahmir., N., Qayoom, AQ., Ahsan, N., Wani, TA ., Kilic, Z 2024. Comparative Analysis of Municipal Solid Waste Management between Low and High-Altitude Cities: A Comprehensive Overview. **Environmental Science and Pollution Research, Springer. (Under Review)**
2. **Mushtaq, J.**, Shahmir., N 2024. Impact of egg shell powder as partial replacement with cement in concrete. **Journal of Material Cycles and Waste Management, Springer. (Under Review)**
3. Shahmir, N ., **Mushtaq, J.**, Wani, TA 2023. A Case Study of Non-Destructive Testing of Ancient Cob-based Sustainable. **International Journal of Structural Engineering, Inderscience. KSCE Journal of Civil Engineering, Springer. (Under Review)**
4. Shahmir, N, **Mushtaq, J.**, Wani, TA 2023. Structural Properties of Nanomaterials Epoxy/E-Glass Fibre utilizing Charcoal Ash and Silica as Fillers. **International Journal of Masonry Research and Innovation, Inderscience. (Under Review)**

Membership/ Volunteer Positions

- Member at Institute of Scholars, India (InSc)
- Volunteer Director at Centre for Climate Change at Nature University
- Chief Environmental Consultant at J&K ECO-Watch for Solid Waste Management
- Consultant for Solid Waste Management for Eco-Restoration of VIHI District Kashmir

Personal bio-data

Nationality: Indian
Gender: Male
Religion: Islam
Marital Status: Married
Hobbies: Social Work, Reading, Driving and Travelling.
Language: English (Proficiency);
Urdu(Proficiency);Hindi(Proficiency)
Kashmiri (Native Proficiency)

References

1. Prof. Naved Ahsan
Professor (Deptt of Civil Engineering)
Jamia Millia Islamia, New Delhi
Email: nahsan@jmi.ac.in
Cell: +917982667066, +919868823417
2. Prof. Abdul Qayoom Dar
Professor (Deptt of Civil Engineering)
National Institute of Technology Srinagar
Email: aqayoom@nitsri.ac.in
Cell: +917889408833, +919419001914
3. Prof. M.A. Ahangar
Professor (Deptt. of Civil Engineering).
National Institute of Technology Srinagar, (J&K)
Email id: manzoorahangar@nitsri.ac.in
Cell: +919419404659, +918825000456
4. Dr. Abdulaziz Ibrahim Almohana
Assistant Professor (Deptt of Civil Engineering)
King Saud University, Kingdom of Saudi Arabia,
Email id: aalmohanna@ksu.edu.sa
Cell: +966534404440

Books Chapters

1. Bhat, M., Gilani, TA., **Mushtaq, J.**, Gull, I., Malik, AR., Shahmir, NG., Jessie, A., Gaayathri, S. Ganeshe, Danish, P (2024). Novel Use of Waste Rubber Tyres in Pavement Materials. Springer Nature Proceedings in Materials.
2. **Mushtaq, J.**, Beigh, IH., Khaja, MA., Kilic, Z 2024. GIS-based water quality Assessment of Dal Lake in Northwestern Himalayas. Environmental Science and Engineering Book Series, Springer
3. Beigh, IH., **Mushtaq, J.**, Khaja, MA., Kilic, Z 2024. Flood Susceptibility Zonation of Jhelum River Using Frequency Ratio Model in Northwestern Himalayas. Environmental Science and Engineering Book Series, Springer

Projects Undertaken/Ongoing

- Worked on Municipal Solid Waste Management in different districts of Kashmir. (Completed)
- Community-Based Pilot Project for Municipal Solid Waste Management in Hazratbal Area, Srinagar City Funded by Jammu and Kashmir ECO-Watch, India. (Ongoing)
- Go Green Srinagar Project Funded by Jammu and Kashmir ECO-Watch, India. (Ongoing)
- Eco-restoration of VIHI District in Kashmir under UNDP. (Ongoing)

Reviewer of International Journals

- Journal of Environmental Planning and Management (Taylor and Francis)
- Waste Management & Research (Sage Publications)
- Environmental Science & Pollution Research (Springer)
- Journal of Cleaner Waste Systems (Elsevier)
- Science of Total Environment (Elsevier)
- Journal of Material and Testing (ASTM)
- Environmental Monitoring and Assessment (Springer)
- International Journal of Sustainability (MDPI)
- Journal of Infrastructure, Policy and Development (JIPD)
- International Journal of Hydrology Science and Technology (Inderscience)
- International Journal of Agricultural and Environmental Information Systems
- Journal of Environment and Waste Management (Premier Publishers).
- Water Infrastructure, Ecosystems and Society (AQUA)
- Journal of Environmental & Earth Sciences
- Waste Management Bulletin (Elsevier)

Declaration

I hereby declare that the given above information is correct.


Jasir Mushtaq