

# Dr. REHAB JAN

Kursoo Padshahi Bagh, Srinagar, 190008

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## EDUCATION

### Ph. D

Specialization: Hydraulic structures (Water Resources Engineering)

*National Institute of Technology, Srinagar*

2017-2022

### Bachelor of Engineering (B.E)

Specialization: Civil Engineering

*University of Kashmir*

2011-2016

## KEY SKILLS

- MS Office
- AutoCAD
- IBM SPSS Software
- OriginPro
- MATLAB
- Golden Software - SURFER
- SigmaPlot

## PROJECTS

- B. E.

### **Effect of Superplasticizers on properties of Fresh and Hardened Concrete**

The aim was to determine the optimum percentage of superplasticizer in concrete in order to enhance its properties. The superplasticizer used was "AURAMIX 800".

- Ph. D.

### **A study on the effect of various obstacle parameters on local scour**

The intention of the study was to analyze the impact of material type of the bridge pier and other related parameters such as surface roughness, water absorption, density, bending strength and modulus of elasticity on local scour in addition to flow intensity and bed material. The study to ascertain the possible effect of mutual interference of obstacles on their local scour was also carried out.

## AREAS OF EXPERTISE

- Water Resources Engineering
- Fluid Mechanics and Hydraulics

## EXPERIENCE

- Currently working as Lecturer (Contractual) in Institute of Technology, *University of Kashmir Srinagar*, J&K, India
- Worked as Assistant Professor in SSM College of Engineering from 10<sup>th</sup> August 2022 till 20<sup>th</sup> February 2024.

## LANGUAGES

- Read & write - English and Urdu
- Read - Kashmiri

## ACTIVITIES

- **Training programmes:**
  1. Construction of Expressway Corridor (flyover) from Jehangir Chowk to Rambagh, Srinagar.
- **Conferences:**
  1. 1st International Conference on Recent Developments in Science, Humanities & Management - 2018.
  2. 13th session of J&K Science Congress, University of Kashmir - 2018.
- **Workshops:**
  1. Introduction and Basics of Programming Skills using MATLAB and PYTHON, 2019, NIT Srinagar.
  2. Water Conservation and Management, 2019, NIT Srinagar.
  3. Flood Management with Focus on Jhelum Basin, 2019, NIT Srinagar.
- **Short-term courses:**
  1. Effective Tools and Techniques in Qualitative Research, 2020, NIT Jalandhar.
  2. Advances in Geotechnical Engineering for Sustainable Development (AGESD-2020), NIT Srinagar.
  3. Disaster Mitigation (Civil Engineering Perspective), 2022, NIT Srinagar.
  4. Catastrophe & Civil Engineering Solutions, 2022, NIT Srinagar.

## PUBLICATIONS

### Research Papers

- Rehab Jan. (2018) Effect of Superplasticizers on properties of Fresh and Hardened Concrete. International Journal of Advance Research in Science and Engineering. 07(04): 1824-1832.
- Rehab Jan, M. A. Lone. (2022) Effect of mutual interference of piers on their local scour phenomenon. Innovative Infrastructure Solutions. 7(186): 1-15. <https://doi.org/10.1007/s41062-022-00790-3>
- Rehab Jan, M. A. Lone. (2023) Investigating the effect of bridge pier material type and related parameters on local scour. International Journal of Hydrology Science and Technology. 15(4): 421-434. <https://doi.org/10.1504/IJHST.2022.10046855>

## PERSONAL DETAILS

- Date of Birth : 13/02/1993
- Nationality : INDIAN