

# Curriculum Vitae

## PERSONAL INFORMATION

### Nasir Rather

📍 Department of Civil Engineering, Baba Ghulam Shah Badshah University, Rajouri, 185234 Jammu and Kashmir (India)

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💬 Skype nasirrather

## WORK EXPERIENCE

08/09/2016–Present

### Assistant Professor

Baba Ghulam Shah Badshah University, Rajouri, Jammu and Kashmir (India)

Conducting teaching classes for the UG Students in Civil Engineering/Water resources related subjects in a disciplined environment of interactive learning with focus on their academic and overall personality development

- Preparing the learning materials for easy comprehension
- Creating the Laboratory Manuals and conducting practical classes
- Educating students in performing practical and recording results/writing reports
- Playing active role in curriculum development, conducting examinations and evaluating answer sheets
- Conducting guidance and counseling sessions for students at departmental level with specific emphasis on orientation of career pursuits
- Providing leadership to entire departmental faculty/staff and providing administrative support to ensure hassle free operations as the departmental in-charge

08/02/2013–09/09/2013

### Junior Engineer

Sarva Shiksha Abhiyan, Bandipore, Jammu and Kashmir (India)

Adroitly oversaw and surveyed the site and billing of contractors/sub-contractors for the construction projects and their payments; responsible for execution of the items as per the approved drawings and to maintain the quality parameters as per FQP (Field of Quality Plan)

- Diligently verified operational efficiency levels and implemented various cost control measures for ensuring cost-effective procurements and improving bottom-line performance
- Handled the labor and coordinated with consultants, contractor and Departmental authorities

01/01/2009–31/07/2010

### Construction Engineer

ICT Pvt Ltd, Srinagar (India)

Adroitly oversaw and surveyed the site and billing of contractors/sub-contractors for the construction projects and their payments

- Verified operational efficiency levels and implemented various cost control measures for ensuring cost-effective procurements and improving bottom-line performance
- Handled the labor and coordinated with consultants, contractor and company authority
- Efficiently interacted and coordinated with government bodies/officials to obtain necessary sanctions/approval for the construction of the plant
- Streamlined overall activities connected with safe and efficient operations while implementing quality standards for meeting the targets of within pre-set time & cost parameters
- Led efforts across overseeing & preparing bills for Sub-Contractors as per measurement reports; efficient in preparing weekly/monthly report while coordinating with site team
- Efficiently maintained perfect coordination with project team & all interest groups Consultants, Architects, site engineers, contractors; also accountable for selecting efficient & productive

Contracts, consultants & Architects for the project. Shouldered the responsibility of preparing execution of work, R.A bills of sub-contractor and their payment; pivotal in site execution, supervision, quality control and assurance while coordinating the consultant, client and Sub-contractors. Preparation of Due Diligence Report for Srinagar urban water supply and Drainage

- Design of Trunk & Main Drains involving Trenchless Construction (Microtunneling) used to install pipelines beneath Highways and environmentally sensitive areas. Hydraulic Design of aerator, Sedimentation Tank, Flocculator, and Filter as per CPHEEO manual; preparation of Detailed Project Report for Srinagar urban water supply and Drainage. Provided assistance in Preparation of Cost Allocation Plan
- Designed criteria, formulation for water supply and Drainage; provided assistance in framing specification

## EDUCATION AND TRAINING

13/09/2013–18/05/2018

### PhD Civil Engineering

National Institute of Technology, Srinagar, Jammu and Kashmir (India)

Research Title: Protective filter design criteria based on particle shape and base gradation parameters

Brief description of research: The project was undertaken to develop the design criteria of protective filters based on particle shape of filters and base gradation parameters. The main objective was to incorporate the shape parameters of filter particles in the filter design criteria

10/08/2010–11/08/2012 **M.Tech Water Resources Engineering**

National Institute of Technology, Srinagar, Jammu and Kashmir (India)

Research Title: Review and Measures for Rehabilitation and Improvement of Zaingeer Canal and its Head works

Brief description of research: The project was undertaken to provide an analytical solution to meet the water requirement of crops over an area of 5100 hectares of land. The main objective of the project was to take an in-depth review of the said canal and suggest the remedial measures for rehabilitation and improvement of the canal

20/09/2004–14/12/2008

### B.E. Civil Engineering

University of Kashmir, Srinagar (India)

Civil Engineering

## PERSONAL SKILLS

Mother tongue (s) Kashmiri

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
[Common European Framework of Reference for Languages - Self-assessment grid](#)

Communication Skills

Articulate communicator, able to effectively interact with diverse range of students at a variety of academic levels with abilities in recognizing, respecting & nurturing the creative potential of each student & responding to all classroom queries in a spontaneous manner

## ADDITIONAL INFORMATION

## Journal Publications

- Rather NA, Lone MA, Dar AQ and Mir BH (2021) "*Determination of hydraulic conductivity for granular filters based on constriction size and shape parameters*", Water Supply, IWA Publication, *in press*, DOI: 10.2166/ws.2021.167
- Rather NA, Lone MA, Dar AQ, Mir BH (2020) "*Design Procedure of Elongated Shape Filter for Cohesionless Soils*", Iranian Journal of Science and Technology: Transactions of Civil Engineering, Springer Publication, Vol. 44, No. 1, 491-496, DOI: 10.1007/s40996-020-00462-1
- Rather NA, Lone MA, Dar AQ and Mir BH (2020) "*Design criteria of protective filters based on particle shape and gradation parameters*", International Journal of Hydrology Science and Technology, Inderscience Publication, Vol. 10, No. 1, 102-122
- Rather NA, Lone MA, Dar AQ and Mir BH (2020) "*The influence of particle shape and gradation parameters on the permeability of filters media*", International Journal of Hydrology Science and Technology, Inderscience Publication, Vol. 10, No. 3, 267-286
- Mir BH, Lone MA and Rather NA (2019) "*Significance of Shape Factor of Obstacle on Local Scour*", Iranian Journal of Science and Technology: Transactions of Civil Engineering, Springer Publication, Vol. 43, No. 1, 323-330
- Mir BH and Rather NA (2019) "*Variation of precipitation and temperature for Dachigam and teilbal Catchments*", International Journal of Technical Innovations in Modern Engineering & Science, Vol. 5, No. 3, 8-12
- Rather NA, Lone MA and Mir BH (2019) "*Review and measures for Rehabilitation of Zaingeer Canal and its Head Works*", International Journal of Technical Innovations in Modern Engineering & Science, Vol. 5, No. 2, 234-241
- Rather NA, Lone MA, Dar AQ and Mir BH (2018) "*Laboratory investigations for development of design criteria for varying shapes of protective filters*", International Journal of Geotechnical Engineering, Taylor & Francis Publication, DOI:10.1080/19386362.2018.1475320
- Mir BH, Lone MA, Bhat JA and Rather NA (2018) "*Effect of gradation of bed material on local scour depth*", Geotechnical and Geological Engineering, Springer Publication, Vol. 36, No. 4, 2505-2516
- Rather NA, Lone MA, Dar AQ (2017) "*Design criteria of blade shape filter material for graded cohesion less bases*", International Journal of Geotechnical Engineering, Taylor & Francis Publication, DOI:10.1080/19386362.2017.1377366
- Rather NA, Lone MA and Dar AQ (2018) "*Design criteria of Round shape filters for cohesionless bases*", International Journal of Advanced Structures and Geotechnical Engineering, Vol. 6, 120-125
- Mushtaq A, Dar AQ, Rather NA and Sheikh A (2015) "*Morphometric Analysis of Micro-watersheds of Dal Lake Catchment (J&K) using Geospatial Techniques*", Elixir Civil Engineering, Vol. 83, 33255-33261
- Mir BH, Akhoun A and Rather NA (2015) "*Assessing Impact of Climate Change on Surface Water Resources in Dal Catchment*", Elixir Civil Engineering, Vol. 83, 33247-33254
- Mushtaq A, Dar AQ, Rather NA and Sheikh A (2015) "*Watershed Management of Dal Lake Catchment (J&K) Based on Erosion Intensity Hazard Using Geospatial Technique*", Elixir Civil Engineering, Vol. 80, 31028-31034

## Conference Publications

- Rather NA, Lone MA, Dar AQ and Mir BH (2018) "*Experimental Determination of Permeability of Filter Material Based on Controlling Constriction Size*", 7<sup>th</sup> World Conference on Applied Sciences, Engineering and Management, 26-27 October 2018, The American Business School of Paris, France.
- Ameer Ullah Ganai and Nasir A. Rather (2019) "*Experimental Investigation on Compaction and*

*CBR Characteristics of Soils using Brick Dust and Cement as Stabilizing Agents*, International Conference on Modern Trends in Civil Engineering (ICMTCE2019). 1-2 March 2019, Shri Ramswaroop Memorial University, Lucknow, UP, India

#### Book Chapters

- Mir B.H, Rather NA, Eslamin S (2022) "*Social Aspects of Flooding*", Flood Handbook Principles and Applications, 1<sup>st</sup> Edition, Ch. 06, CRC Press, Taylor & Francis Group, Boca Raton, London, New York, ISBN: **9781003262640**.
- Rather NA, Islam SU, Mir B.H, Eslamin S (2022) "*Floodwater Harvesting*", Flood Handbook Principles and Applications, 1<sup>st</sup> Edition, Ch. 22, CRC Press, Taylor & Francis Group, Boca Raton, London, New York, ISBN: **9781003262640**.
- Eslamian S, Maleki M, Rather NA (2022) "Tsunami Forecasting in Asia and Middle East", Handbook of Uncertainty in Eurasian Forecasting, published by Nova Science Publishers, USA (ACCEPTED).
- Mir BI, Mir BH, Rather NA, Eslamian S (2022) "Potential of Solar Energy in India", Handbook of Uncertainty in Eurasian Forecasting, published by Nova Science Publishers, USA (ACCEPTED).
- Mir BH, Kumar R and Rather NA (2019) "*Water Resources Scenario of Himalayan Region*", Applied Agricultural Practices for Mitigating Climate Change, Volume 2, 1<sup>st</sup> Edition, Ch. 18, CRC Press, Taylor & Francis Group, Boca Raton, London, New York, ISBN: 13: 9780367345297.

#### Honours and Awards

- Government of India Doctoral Fellowship (2013-2016)
- Bharat Vikas Award 2019

#### Courses

- Training Course on "**Introduction to River and Channel Modeling using MIKE Hydro River**", organized by DHI (India) Water and Environment Pvt. Ltd, New Delhi India. (30-01-2019 to 01-02-2019)
- One-week short Term Course on "**Tools for Scientific Research in Engineering and Science through ICT**", organized by Department of Electrical Engineering, Baba Ghulam Shah Badshah University, Rajouri, Jammu & Kashmir in collaboration with National Institute of Technical Teachers Training and Research, Chandigarh. (12-11-2018 to 16-11-2018)
- One-week Course on "**Life Skills Development through ICT**", conducted by Curriculum Development Centre at Baba Ghulam Shah Badshah University, Rajouri, Jammu & Kashmir in collaboration with National Institute of Technical Teachers Training and Research, Chandigarh. (30-07-2018 to 03-08-2018)
- Five days Summer Training Program on Active Learning Workshop on the theme "**Pedagogy and Research**", conducted in IIT Bombay. (04-06-2018 to 08-06-2018)