

Amim Altaf Nabi

Scientist

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Date of Birth: 01/03/1999

Education

2023-Present	Indian Institute of Technology Delhi (IIT Delhi) Ph.D. Environmental Engineering 9.25 CGPA (Coursework)
2023	Visvesvaraya National Institute of Technology Nagpur (VNIT Nagpur) MTech. Environmental Engineering 9.02 CGPA
2020	Baba Ghulam Shah Badshah University, J&K BTech. Civil Engineering 8.3 CGPA
2016	Delhi Public School, Rajouri, J&K, CBSE Board HSC, PCM+B 8.7 CGPA
2014	Delhi Public School, Rajouri, J&K, CBSE Board SSC, 10 CGPA

Professional Experience

Scientist (Scientist C)	November 2025	Till Date	CSIR-CRRI
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Experience

June 2019- August 2019	CSIR-Central Building Research Institute, Roorkee Research Intern Project: Precast Concrete Sandwich Panels Guidance: Sr. Scientist Dr. A.K. Mittal & Sr. Scientist M.M. Dalbehra
Feb 2020- May 2020	CSIR-Central Building Research Institute, Roorkee Research Intern Project: Numerical study of composite lightweight Expanded Polystyrene (EPS) Core Structural panel Guidance: Sr. Scientist M.M. Dalbehra

Projects

- **Ongoing project at the Indian Institute of Technology Delhi on “Emerging PV waste stream: Forecasting, Strategic Technology-Need Assessment, and Integrated Planning” is part of my Ph.D. thesis.** It involves modeling the present and future PV waste stream quantities and characteristics, forecasting strategic technological growth, and ultimately establishing a planning and management framework. The first two objectives of this project have been covered thus far. (Supervisor: Prof. A. K. Nema)

- **MTech project on “Minimum cost Design of a WDN by Minimizing the Variance of pipe flows as surrogate measure of reliability in a single step using NSGA”.** This project was a part of my MTech dissertation. It involved modelling and optimizing a water distribution network to minimize cost and maximize reliability using evolutionary algorithms like the non-dominated sorting genetic algorithm. A successful single-step methodology was devised to achieve the objectives. (Supervisor: Prof. Rajesh Gupta)
- **BTech Project on “Numerical study of composite lightweight Expanded Polystyrene (EPS) Core Structural panel”.** This project was a part of my final year BTech project submission. It involved modelling and analysis of EPS panels under point load and distributed load applied vertically simulating a real-life condition.
- **Project during summer internship at CSIR-CBRI on “Precast Concrete Sandwich Panels”.**

Publications

- **Nabi, A. A., & Nema, A. K. (2024). An in-depth analysis of factors and forecasting techniques for emerging solid waste streams. *Journal of Environmental Management*, 367, 122037.**
- **Nabi, A. A., & Gupta, R. (2023, December). Reliability-Based Design of Water Distribution Network. In *International Conference on Hydraulics, Water Resources and Coastal Engineering* (pp. 259-269). Singapore: Springer Nature Singapore.**

Awards and recognitions

- **“Institute Medal (GOLD)”** by Visvesvaraya National Institute of Technology Nagpur, at the 21st convocation for securing the highest CGPA in the Master of Technology in Environmental Engineering Programme.
- **“Late Prof. P R Bhawe Prize”** for exhibiting the best performance in the subject “Environmental Engineering System Optimization” by Director VNIT on Republic Day 2022.
- **“Purna Award-I”** for securing the first position in the order of merit in MTech Environmental Engineering by VNIT
- **Certificate of recognition for Outstanding performance** in Class 10 board exams by the Central Board of Secondary Education (CBSE)
- **“Late Shri Bhide Prize”** at 21st convocation for securing 1st position (Topper) in MTech Programme
- **“Academic Excellence Prize”**, a certificate of excellence by Visvesvaraya National Institute of Technology, Nagpur
- 1st and 2nd prize for two consecutive years in the Mathematics Olympiad held by the Department of Mathematics at BGSBU Rajouri
- 1st prize in the debate at Delhi Public School, Rajouri

Key positions and Volunteer experience

- Rapporteur and coordinator for Roundtable discussion on “Air Quality and Health: The impact of respirable particulate matter and Ozone” organized by IIT Delhi in association with Global Alliance on Health and Pollution (GHAP) (10-02-2025)
- Moderator and coordinator for workshop on “Energy Recovery from Municipal Solid Waste using Bio-methanation process” organized by IIT Delhi in association with CPHEEO (23-09-2024)
- Coordinator and Student member for Indian Water Works Association (IWWA) Nagpur (2022-23)
- General Secretary Post-Graduate Boys Visvesvaraya National Institute of Technology Nagpur (2022-23)

- Placement Coordinator at Visvesvaraya National Institute of Technology Nagpur (2021-23)
- Student Council Member BGSBU Rajouri (2018-20)
- Organizer for 3-day technical fest “Alfresco Fiesta” BGSBU Rajouri (15-09-2019)
- Innovation and E-cell member BGSBU
- Core committee member at “Shahbaz Foundation”

Conferences and workshops

- Presented at “20th INTERNATIONAL SYMPOSIUM ON WASTE MANAGEMENT, RESOURCE RECOVERY AND SUSTAINABLE LANDFILLING on 13-17 OCTOBER 2025 in Sardinia, Italy
- Presented at “RECYCLE,2025, 5th International Conference on Waste Management, on 5th & 6th June, 2025, organized by IIT Guwahati.
- “Energy Recovery from Municipal Solid Waste using Bio-methanation process” organized by IIT Delhi in association with CPHEEO. (23-09-2024)
- Presented at, 28th International Conference on Hydraulics, Water Resources, River and Coastal Engineering: HYDRO 2023, organized by NIT Warangal, India. (21-23 December 2023)
- “High-End Workshop on Advanced Techniques for Uncertainty Modelling and Quantification in Civil Engineering”, organized by NIT Tiruchirappalli, funded by Science & Engineering Research Board (SERB). (18th to 23rd July 2022).
- “Characterization of Water Pollution and Laboratory Techniques”, organized by Zakir Hussain College of Engineering and Technology, Aligarh Muslim University, funded by TEQIP-3. (22nd to 24th October 2018).

Exams and Scholarships

- FITT (Full Time Institute Teaching Assistantship) at IIT Delhi
- Graduate Aptitude Test in Engineering (2022)
- Graduate Aptitude Test in Engineering (2021)

Linguistic Ability

- English, Urdu, Hindi, and Kashmiri

Hobbies

- Trekking
- Skiing (Basic Level Skier from Jawaharlal Institute of Mountaineering)
- Poetry (Urdu Literature)