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Dr. Juned Raheem

Associate Professor, Department of Civil Engineering
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DOB: 14/01/1980

Personal Details

Name : **Dr. Juned Raheem**
Father's Name : **Late Shri Ahfazul Raheem**
Gender : **Male**
Nationality : **Indian**
Languages Known : **Hindi, English**

Education

- **Ph.D. Civil Engineering**, Maulana Azad National Institute of Technology, Bhopal, India, 2019
- **M. Tech., Structural Engineering**, Maulana Azad National Institute of Technology, Bhopal, India, 2011
- **B.E., Civil Engineering**, Maulana Azad National Institute of Technology, Bhopal, India, 2002

Present Employment

Institute / Organization: Maulana Azad National Institute of Technology Bhopal Designation: Associate Professor

Nature of Work: Teaching

Pay Band/Level: 13 A2 Grade Pay / Or as Applicable: 9500

Institute / Organization Type: Central Government

Research Areas

- **Structural Engineering in Steel Systems**- Lateral torsional buckling behaviour in steel beams of varying cross-sectional geometries, encompassing analytical, numerical, and experimental approaches to establish improved buckling resistance and design recommendations. Capacity-based

design principles for structural connections to ensure ductile failure mechanisms and improved seismic performance of framed structures.

- **Earthquake Engineering-** Tuned mass damper systems for passive vibration control in structures subjected to dynamic loading, including wind and seismic excitations.
- **RCC Structures-** Reinforced cement concrete tanks and liquid retaining structures efficient and code-compliant design practice. Assessment of bridge structural response and residual capacity under sequential hazard scenarios, integrating multi-hazard risk frameworks to inform resilient bridge design and post-event safety evaluation.
- **Structure Health Monitoring-** Nonlinear dynamic behaviour of bridge systems and its application to structural health monitoring, with focus on damage detection, identification of nonlinear indicators, and condition assessment of in-service bridges.
- **Construction Materials and Sustainability-** Development, characterization, and optimization of innovative and sustainable construction materials for strength, durability and environmental performance.

Publications (Published/ Accepted)

Journals

1. Shani Singh, Raman Nateriya, Juned Raheem "Sustainable Fly Ash-GGBS Geopolymer Concrete Using Industrial Caustic Waste: Raman-Enhanced Microstructural and Performance" *Waste and Biomass Valorization*” <https://doi.org/10.1007/s12649-026-03574-3>. (2026)
2. Rathore, Yash, and Juned Raheem. "Synergistic influence of Vindhyan sandstone manufactured sand and rice husk Ash on concrete performance." *National Academy Science Letters* 48.3 (2025): 357-362, <https://doi.org/10.1007/s40009-024-01484-3>.
3. Rathore, Yash, and Juned Raheem. "The evolution, characteristics, and potential of manufactured sand in concrete: A short review." *National Academy Science Letters* (2025): 1-7, <https://doi.org/10.1007/s40009-025-01624-3>.
4. Rathore, Yash, and Juned Raheem. "Sustainable Concrete Advancements: Exploring Deccan Basalt Manufactured Sand as A River Sand Alternative." *National Academy Science Letters* (2025): 1-7, <https://doi.org/10.1007/s40009-025-01659-6>.
5. Rathore, Yash, and Juned Raheem. "Experimental Investigation of Concrete Performance Incorporating Deccan Basalt Manufactured Sand and Rice Husk Ash." *National Academy Science Letters* (2025): 1-9, <https://doi.org/10.1007/s40009-025-01703-5>.
6. Raheem, Juned, S. K. Dubey, and Nitin Dindorkar. "Compatibility check of elastic critical moment evaluation of rolled channel section beam." *international journal of civil engineering and technology (IJCET)*, Volume 9, Issue 10, October 2018.
7. Raheem, Juned, S. K. Dubey, and Nitin Dindorkar. "Numerical simulation for critical elastic moment of steel

beams with different cross sections." *international journal of civil engineering and technology (IJCIET)*, Volume 9, Issue 6, June 2018

8. Rana, Dileshwar, and Juned Raheem. "Seismic analysis of regular & vertical geometric irregular RCC framed building." *International Research Journal of Engineering and Technology* 2.04 (2015): 2395-0056.

Conferences

1. Rathore, Yash, Juned Raheem, and Sphurty Raman. "Enhancing Concrete Performance Using Sustainable Ternary Blended Mix with Metakaolin, Rice Husk Ash, and Deccan Basalt Manufactured Sand." *Procedia Structural Integrity* 71 (2025): 401-408, <https://doi.org/10.1016/j.prostr.2025.08.054>.
2. Rathore, Yash, Juned Raheem, and Sphurty Raman. "Performance Evaluation of Concrete Incorporating Vindhyan Sandstone Manufactured Sand and Metakaolin." *Lecture Notes in Civil Engineering (Recent Advances in Structural Engineering) Volume 2, 2025*, https://doi.org/10.1007/978-981-96-8830-2_24.
3. Shani Singh, Raman Nateriya, and Juned Raheem. "Self-healing Concrete: A Comprehensive Review." *Lecture Notes in Civil Engineering (Recent Advances in Structural Engineering) Volume 2, 2025*, https://doi.org/10.1007/978-981-96-8830-2_23.
4. Dheeraj Kaurav, Juned Raheem, and Neeraj Tiwari. "Machine Learning applications in structural health monitoring of RCC and steel bridges: A chronological review of advancing technologies." *Lecture Notes in Civil Engineering (Recent Advances in Structural Engineering) Volume 3, 2025*, https://doi.org/10.1007/978-981-96-8834-0_15.
5. Sahu, Badree, Priyanka Dhurvey, Parth Verma, Juned Raheem, and Aditya Bhargava. "Behaviour Analysis of Layered Beam Using ANSYS." In *International conference on Advances in Materials and Manufacturing*, pp. 135-142. Singapore: Springer Nature Singapore, 2022, https://doi.org/10.1007/978-981-99-2921-4_13

Membership of Professional Societies

- The Institution of Engineers (India) [IEI]: M-1722160
- Indian Concrete Institute [ICI]

Student Mentorship

Ph.D. Guidance

- Mr. Yash Rathore, Ph. D. Research Scholar at MANIT Bhopal, Dec 2020 (Ongoing)
- Mr. Aditya Bharagava, Ph. D. Research Scholars at MANIT Bhopal, jointly with Dr. Priyanka Dhurvey, Dec 2021 (Ongoing)
- Mr. Shani Singh, Ph. D. Research Scholars at MANIT Bhopal, jointly with Dr. Raman Nateriya, Dec 2022 (Ongoing)
- Mr. Dheeraj Kaurav, Ph. D. Research Scholars at MANIT Bhopal, jointly with Dr. Neeraj

Tiwari, Dec 2023 (Ongoing)

- Mr. Suneel Kumar Soni, Ph. D. Research Scholars at MANIT Bhopal, jointly with Dr. Vivek Garg, Dec 2024 (Ongoing)
- Namrata Pandey, Ph.D Research scholars at MANIT Bhopal, jointly with Dr. K.K.Shukla, July 2025(ongoing)
- Kuldeep Umath Ph.D Research scholars at MANIT Bhopal, July 2025(ongoing)
- Prabeen Bano Ph.D Research scholars at MANIT Bhopal, July 2025(ongoing)
- Kamlesh Gupta Ph.D Research scholars at MANIT Bhopal July 2025(ongoing)

Teaching Experience Details

Institute	Start Date	End Date	Designation	Nature of Work	Pay Scale (Rs)
MANIT, Bhopal	24 Dec 2024	Till Date	Associate Professor	Teaching	9500
MANIT, Bhopal	24 Feb 2020	23 Dec 2024	Assistant Professor	Teaching	8000
MANIT, Bhopal	22 Aug 2019	23 Feb 2020	Assistant Professor	Teaching	7000
MANIT, Bhopal	08 Mar 2013	21 Aug 2019	Assistant Professor	Teaching	7000
MANIT, Bhopal	01 Jan 2006	07 Mar 2013	Assistant Professor	Teaching	6000
MANIT, Bhopal	14 Jul 2005	31 Dec 2005	Lecturer	Teaching	6000

Expert Lecture Delivered

S.NO.	Institute/Organization	Program Details
1.	Department of Civil Engineering MANIT, Bhopal	Recent advance in Civil Engineering for Sustainable Development-2025
2.	SIRT, Sage group of Institute	National Education Policy 2020 Outcome based Learning -2025

Conference /workshop Organized /Attended

S.No.	Name of Conference/ Workshop	Organizing Institute /Agency	Organized/Attended	Date	place
1.	Recent advances in Civil Engineering for Sustainable Development - 2025	Department of Civil Engineering MANIT Bhopal	Organized	10/04/2025	Bhopal
2.	International water conference for sustainable development Goals (IWCSGDG)	Department of Civil Engineering MANIT Bhopal	Organized secretary	22/03/2024	Bhopal

Administrative Experience

Industry / Organisation	Start Date	End Date	Duration [in months]	Designation	Nature of Work
MANIT, BHOPAL	24 April 2019	31 Oct 2023	54	PROFESSOR IN CHARGE SECURITY	DEVELOPING AND INITIATING SECURITY POLICIES OF THE INSTITUTE, MAINTAINING DISCIPLINE INSIDE THE CAMPUS, RESTRICTING UNNECCESARY MOVEMENTS OF OUTSIDERS.

MANIT, BHOPAL	26 April 2023	Till Date		SECRETARY GLOBAL MANIT ALUMNI ASSOCIATION	OVERSEES GLOBAL COORDINATION, MANAGES OFFICIAL RECORDS, FACILITATES ALUMNI NETWORKING, AND LIAISES BETWEEN MEMBERS AND MANIT ADMINISTRATION
MANIT, BHOPAL	16 April 2025	Till date		ASSOCIATE DEAN CIVIL MAINTENANCE	MAINTAINS ACADEMIC INFRASTRUCTURE, MANAGES STRUCTURAL REPAIRS, OVERSEES CLASSROOM RENOVATIONS, AND ENSURES CAMPUS-WIDE UTILITY AND SANITATION
MANIT, BHOPAL	18 May 2017	06 Mar 2022	57	WARDEN HOSTEL NO-06	MONITORING THE FUNCTIONING OF HOSTEL, SUPERVISED THE NEW POLICY OF STUDENTS MESS, TAKING CARE AND CREATING A SUPPORT SYSTEM FOR THE RESIDENTS.
MANIT, BHOPAL	07 Mar 2022	TILL DATE	16	WARDEN HOSTEL NO-02	MONITORING THE FUNCTIONING OF HOSTEL, SUPERVISED THE NEW POLICY OF STUDENTS MESS, TAKING CARE AND CREATING A SUPPORT SYSTEM FOR THE RESIDENTS.
CIVIL DEPARTMENT, MANIT, BHOPAL	10 Nov 2022	TILL DATE	09	PG COORDINATOR	ENSURING ROUTENE OPERATION OF THE COURSE, MONITOR AND SUPPORT PROGRESS OF STAFF AND STUDENTS.

CIVIL DEPARTMENT, MANIT, BHOPAL	22 Feb 2026	TILL DATE	04	LABORATORY INCHARGE- CONCRETE LAB	ENSURING THE MAINTENANCE OF LABORATORY AND ITS RECORDS, PROMOTING RESEARCH ACTIVITY IN LABORATORY, UPGRADING THE LABORATORY.
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Project/Consultancy Undertaken

Title	Sponsoring Agency	Duration	Amount	Co-Investigator (if any)
Safety checking and structural health analysis of major ROB at Km.0+900 (Dabra Town Portion) at Dabra-Bhitarwar-Harsi Road SH-51	B.S. Meena Chief Engineer (NDB) MPRDC Bhopal	Three Months	Rs.27,73,000	Dr. Nitin Dindorker
Damoh- Hata-Gaisabad- Simariya Road (SH-55) is under jurisdiction of M.P. Road Development of Corporation. There is an old major bridge at Km 66/6 which was constructed far back in year 1965. lengths of this major bridge is 280 mts.	B.S. Meena Chief Engineer (NDB) MPRDC Bhopal	Three Months	Rs.16,52,000	Dr. Nitin Dindorker
Stability Test for Residential and Non-Residential Building at SPM Hoshangabad	Security paper Mill, Hoshangabad (M.P.)	One Year	Rs.24,78,996	Dr. Vivek Garg
Preparation of Structural Design and drawing of Boys Hostel of 500 students' capacity at IIITM Gwalior (M.P.).	Executive Engineer Gwalior Central Division CPWD Gwalior	Three Months	Rs.19,61,750	Dr. Aniket Chanda

Preparation of Structural Design and drawing of Administrative Block, Quarter Guard and Store Block Education Classroom for GC, CRPF, Gwalior.	Executive Engineer Gwalior Project Division CPWD, Gwalior	On going	Rs.9,71,376	Dr. Vivek Garg
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Hobbies: Playing Badminton

Declaration

I hereby declare that all the information provided here is true to the best of my knowledge.

Place:

Date:

Signature