Dr. Md. Arif Faridi
Assistant Professor (Guest)
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Contact Information:

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- **Google Scholar ID: ZUnTXJgAAAAJ&hl=en**
- **ResearcherID: IQS-9302-2023**

Career Objective

To contribute to academia and research through innovative teaching and impactful research in Structural Engineering, with a focus on Structural Health Monitoring and Bridge Health Assessment, leveraging advanced analytical and experimental techniques.

Educational Qualifications

- **Ph.D. in Civil Engineering**
  - **Specialization:** Structural Engineering (Bridge Health Monitoring using Output-Only Dynamic Response)
  - **Institution:** Indian Institute of Technology Patna
  - **Year:** 2024
- **M.Tech in Civil Engineering (Structural Engineering)**
  - **Institution:** ZHCET, Aligarh Muslim University
  - **Year:** 2016
  - **CGPA:** 9.44 (83.32%)
- **B.Tech in Civil Engineering**
  - **Institution:** National Institute of Technology Patna
  - **Year:** 2010
  - **CGPA:** 7.94 (74.1%)

Employment History

- **Assistant Professor (Guest)**
    - **Department:** Civil Engineering, Jamia Millia Islamia, New Delhi
    - **Duration:** October 2024 – Present
- **Engineer**
    - **Organization:** Punj Lloyd Ltd.
    - **Duration:** October 2010 – May 2012

Research Experience

- Ph.D. research focused on "Health Assessment of Bridge-Type Structures using Output-Only Dynamic Response."
- Developed analytical, experimental, and numerical approaches for damage detection and quantification in beam and truss structures.
- Conducted system identification of real bridges using roving accelerometers.
- Published four papers in high-impact, Web of Science-indexed journals.

Teaching Experience

- Delivered courses such as **Reinforced Concrete Design**, and **Foundation Engineering** at Jamia Millia Islamia.
- Hands-on lab supervision in **Civil Engineering Lab-I** and **Structural Materials Laboratory** at IIT Patna.

Publications

1. **Faridi, M.A**., Roy, K. & Singhal, V. *Perturbation approach for damage localization in beam-type structures: analytical, experimental and numerical exposition.* **Journal of Structural Integrity and Maintenance** 8, 2 (2023). https://doi.org/10.1080/24705314.2023.2168171 (Impact factor: 3.0)

2. **Faridi, M.A**., Kuncham, E., Roy, K. et al. *Using limited roving sensors to monitor bridge subjected to random traffic load.* **Journal of Civil Structural Health Monitoring** 14, (2024). https://doi.org/10.1007/s13349-023-00748-8 (Impact factor: 3.6)

3. **Faridi, M.A**., Roy, K. & Singhal, V. *Damage quantification in beam-type structures using modal curvature ratio.* **Innovative Infrastructure Solutions** 9, 44 (2024). https://doi.org/10.1007/s41062-023-01353-w (Impact factor: 2.3)

4. **Faridi, M.A**., Roy, K. & Singhal, V. *Application of covariance statistical method for damage identification on railway truss bridge using acceleration response: Experimental and numerical validation*. **Structural Health Monitoring** 23,6 (2024). https://doi:10.1177/14759217241229616 (Impact factor: 5.7)

Key Skills

- Structural Health Monitoring and Bridge Diagnostics
- Finite Element Analysis using MATLAB, SAP-2000, ETABS, and CSiBridge
- Vibration-Based Damage Detection

Awards and Achievements

- Post Graduate Scholarship (GATE) for M.Tech at AMU (2014-2016).
- Research Fellowship for Ph.D. at IIT Patna (2016-2021).
- Qualified GATE in Civil Engineering (2009, 2013-2016).

References

- **Dr. Koushik Roy**
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  Phone: (+91) 612-302 3197
- **Dr. Vaibhav Singhal**
  Associate Professor, IIT Patna
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