

# Faculty Profile Template



1. **Name:** Manoj Verma

- **Designation:** Lecturer
- **Department:** Civil Engineering
- **Qualification:** PhD
- **Experience:** 8 year

2. **Contact Information:**

- **Email:** manoj.ver001@gmail.com
- **Phone:** +91 8765611043

3. **Research Interests:**

Fracture Mechanics, Integral Bridge, Vehicle-Bridge Interaction, Nonlinear Soil-Structure Interaction, Finite Element modelling, Machine Learning.

4. **Teaching Areas:**

Fracture Mechanics, Finite Element modelling, Machine Learning

5. **Publications:**

International Journals

- i. Verma, M, Mishra, SS. Coupled Fatigue Corrosion life Estimation of RC Beam: Numerical vs Experimental Approach. Structural Concrete, Wiley, Volume 20, issue 6, December 2019, Page 2194-2205, <https://doi.org/10.1002/suco.201800299> (SCIE, Scopus) 1751-7648 Impact factor:3.131
- ii. Verma, M, Mishra, SS. Temperature-driven fatigue life of reinforced concrete integral bridge pile considering nonlinear soil-structure interaction. Structural Concrete, Wiley, Volume 21, issue 6, 2020, Page 1464-4177. <https://doi.org/10.1002/suco.202000049> (SCIE, Scopus) 1751-7648 Impact factor:3.131
- iii. Verma, M, Mishra, SS. The nonlinear Soil-Structure interaction of multi spin Reinforced concrete Integral Bridge. Proceedings of the Institution of Civil Engineers - Bridge Engineering, January 27, 2021, 1-40, <https://doi.org/10.1680/jbren.20.00022> (Scopus, ESCI) 1478-5637,
- iv. Verma, M, Mishra, SS. Fatigue Life of Reinforced concrete integral bridge. International Journal of Recent Technology and Engineering (IJRTE) Volume 8, Issue 5, January 2020, Page no. 4362-4365, <https://doi.org/10.35940/ijrte.E6859.018520> (Scopus)
- v. Jha, Aaryan S., Verma, M. Error Reduction in Data Prediction using Least Square Regression Method. International Research Journal of Engineering and Technology (IRJET), Volume 5. Issue 12, December 2018 (UGC)
- vi. Verma, M, Mishra, SS. Response of Multi-span Reinforced Concrete integral bridge substructure due to environmental temperature and vehicle loading. Geotechnical and Geological Engineering, under Review (ESCI)
- vii. Verma, M, Mishra, SS. Study of various static and dynamic aspects affecting the fatigue life of RC Integral Bridge. Advances in Concrete Construction, Techno press, under review (SCIE)

- viii. Verma, M, Mishra, SS., “Effect of Span length and Vehicle Speed on Fatigue performance of Integral RC Bridge”. Proceedings of the Institution of Civil Engineers - Bridge Engineering, under review (Scopus, ESCI)

#### Book Chapters

- I. Verma, M, & Mishra, S. S. (2021). Fatigue Life Estimation of an Integral RC Bridge Subjected to Transient Loading Using Ansys. In S. Dutta, E. Inann, & S. K. Dwivedy (Eds.), Advances in Structural Vibration (1st ed., pp. 199–208). Springer Singapore. [https://doi.org/10.1007/978-981-15-5862-7\\_17](https://doi.org/10.1007/978-981-15-5862-7_17)

#### **6. Workshops/Conferences Attended:**

##### International Conferences

- I. 1. Verma, M, Mishra, SS., “Fatigue life estimation of an integral RC bridge subjected to transient loading using ANSYS” at ICOVP 2017 “13th Integrational conference of vibration problem” 29th November- 2nd December 2017, Indian Institute of Technology Guwahati. India
- II. 2. Verma, M, Mishra, SS., “Role of Maximum strain on the fatigue life of an Integral Bridge” at ACMS ICMS 2018 “International Conference on Advances in Construction Materials and Structures” March 7-8, 2018, IIT Roorkee, Roorkee, Uttarakhand, India
- III. 3. Verma, M, Mishra, SS., “Effect of Span length and Vehicle Speed on Fatigue of an Integral RC Bridge” at ASCE India Conference 2020 “Second ASCE India Conference on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020), March 2-4, 2020, Kolkata, India
- IV. 4. Rajnish Kumar, Sanjeev K. Suman, Manoj Verma, Vishal K. Narnoli, “Flexible Pavement Treatment Decision Based on Pavement Condition Index Using Fuzzy Inference System” at ASCE India Conference 2020 “Second ASCE India Conference on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020), March 2-4, 2020, Kolkata, India
- V. 5. Vishal K. Narnoli, Sanjeev K. Suman, Manoj Verma, Rajnish Kumar, “Estimation of Composite Modulus of Pavement Shoulder using Nondestructive Evaluation” at ASCE India Conference 2020 “Second ASCE India Conference on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020), March 2-4, 2020, Kolkata, India

##### Awards and Honors:

- i. Achieved 492 rank in GATE 2015 with 56.7 marks.
- ii. Achieved 4650 rank in GATE 2014 with 35 marks.
- iii. Reviewer in “Engineering structures, Springer” and “Advances in Structural Engineering, SAGE publication.”
- iv. Invitation as an invited speaker in International Conference and Expo on Urban and Civil Engineering, June 15-16, 2020 in Montreal, Canada
- v. Invitation as an invited speaker in International Conference on Building Materials and Construction Technologies April 06-08, 2021, Dubai, UAE
- vi. Invitation as an Organizing Committee Member and Speaker to the Conference "International Conference on Civil Engineering and Architectural Design", 01-03 July 2021 in Munich, Germany.

- vii. Offers as an Executive Guest Editor of Current Materials Science 8. Offers as Editorial Board Member in American Journal of Civil Engineering (ISSN Online: 2330-8737 ISSN Print: 2330-8729)

**7. Projects and Grants:**

NA

**8. Professional Memberships:**

NA

**9. Extracurricular Involvement:**

NA

**10. Online Course/Video Links:**

○ **Course Name:** NA

○ **Lecture Series:** NA

**11. Social Media Platforms:**

○ **LinkedIn:** NA

○ **ResearchGate:** [ResearchGate Profile URL]

○ **YouTube Channel** (if applicable): [Channel Link]

**12. Additional Information:**

(Any other relevant details)