

# Dr. Anshul Sharma

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## Research interest

Structural Health Monitoring, Spectral estimation, Machine Learning based classification, Automated fault diagnosis

## Academic Qualification

B.Tech. | Civil Engineering | 2013 | Maharishi Markandeshwar University, Mullana, Haryana, India  
M.Tech. | Structural Engineering | 2016 | Jaypee University of Information Technology, Solan, H.P, India  
Ph.D. | Structural Engineering | 2021 | National Institute of Technology Hamirpur, H.P, India  
CSIR Fellowship | Research Associate | IIT Mandi | Bridging Resilience: Advance Modelling and Flood Mitigation Strategies for Himachal Pradesh's Bridge Infrastructure

## Experience

- Consultant | Building, Bridge and Road Projects | NABARD, PMGSY | Uttej Singh Rathore, A Class Govt. Contractor, Shimla, H.P
- Consultant | Projects-(A) Degree College, Nihri, Karsog, Mandi (B) Steel Trussed Godowns for FCI (C) Convention Centre at Kiarighat Solan | Pi- Dr. Pardeep Kumar, Associate Professor, Department of Civil Engineering, Nit Hamirpur
- Teaching Personnel | Govind Ballabh Pant University of Agriculture and Technology, Uttarakhand
- Guest Faculty | Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut

## Research Publications

- Identification of joint discrepancy in Steel Truss Bridge using Hilbert Transform with Root-MUSIC and ESPRIT Techniques | International Journal of Civil Engineering | 2021 | Doi: 10.1007/S40999-020-00597-2.
- Condition assessment of retrofitted Steel Truss Bridge through fused Hilbert Transform and frequency resolution enhancing techniques | Innovative Infrastructure Solutions | 2021| Doi: 10.1007/S41062-020-00396-7.
- Condition evaluation in Steel Truss Bridge with fused Hilbert Transform, Spectral Kurtosis, and Bandpass Filter | Structural Durability & Health Monitoring | 2021 | Doi: 10.32604/Sdhm.2021.012316.
- Steel Truss Bridge vibration-based condition monitoring using Savitzky-Golay Filter, Hilbert Transform, MUSIC and ESPRIT | Journal of Engineering, Design and Technology | 2021 | Doi: 10.1108/Jedt-01-2021-0066.
- Hilbert Transform and Spectral Kurtosis based approach in identifying the health state of retrofitted old Steel Truss Bridge | World Journal of Engineering| 2021 | Doi: 10.1108/Wje-08- 2020-0375.
- Feature selection and Fault Classification for an Induction Motor bearing data by using Random Forest Classifier | International Journal of Quality Engineering and Technology | 2023 | Doi: 10.1504/Ijquet.2023.134886.

## Conferences Attended

- Second International Conference on Materials, Mechanics & Structures (ICMMS 2022) | Paper Title: Evaluation of Variation in Parameters of Reinforced Concrete with the Incorporation of Alccofine-1203 And Crimped Steel Fibers
- 6th International Conference - Strategies and Challenges and Life Science for Food Security and Sustainable Environment (SCALFE-2023) | Comparison of Traditional and Agriculture Waste Based Grain Storage Structures