

Dr. Manjari Singh

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To achieve academic excellence and deliver the best to the students. Contribute in the overall development of students. Willing to begin my career in academic, with an esteemed institution so as to the gain as well as give my best in the professional and personal front.

Experience

Tenure Faculty, Structural Engineering Department

VJTI Mumbai, 29th August 2022 – Till Date

Academic Qualification

- Ph.D.(2022) Civil Engineering, Motilal Nehru National Institute of Technology, Allahabad (Prayagraj): CPI: 8.62
- B.Tech Civil Engineering, BBDNIIT Lucknow, 2014. 78.2%
- XII, CBSE Board, 2009: 80.0%.
- X, CBSE Board, 2007: 84.2%.

Professional Certification

- Certification Programme in **Machine Learning & Deep Learning, IIT Bangalore and upGrad Education** Private Limited IITB, June 2021-February 2022.

Area of Interest

- Structural Engineering
- Geotechnical Engineering

Achievements

- **MHRD Ph. D. Fellowship**, MNNIT Allahabad, 2016– 2021.
- Qualified GATE 2016.
- Opportunity to get **Direct admission in PhD** just after B.Tech from NIT Allahabad with MHRD fellowship.

Training /Short-Term Courses Attended

- Participated in Webinar on **Paradigm shift in environment: Challenges and Opportunities**” organized by Department of Environmental Science, IGNTU, Amarkantak (M.P), on 5th June 2020.
- Participated in online Short Term Training Programme on **Advances in Civil Engineering Field** organized by Department of Civil Engineering and Internal Quality Assurance Cell (IQAC), Kavikulguru Institute of Technology and Science, Ramtek, NAGPUR from 1st June to 3rd June 2020.

- Participated in short term course on **Design of Hydraulic Structures**, September 2019 held at MNNIT Allahabad.
- Participated in short term course on **Numerical Optimization and Technique (NOT)**, October 2018, held at MNNIT Allahabad.
- Certificate course in **AUTOCAD** (Computer Aided Design) in 2012 from SYNERGY i DESIGN-Lucknow.

Faculty Development Programme (FDP) Attended

- Participated in one week online Faculty Development Programme on “**Recent Trends in Civil Engineering** ” organized by Department of Civil Engineering, J B Institute of Engineering & Technology from 20th – 25th Feb 2023.
- Participated in one week FDP on “**Laboratory Practice on Civil Engineering Materials – Concrete (ICT232)**”, from 13/12/2021 to 17/12/2021, organised by NITTTR, Kolkata.
- Participated in one week FDP on “**Design of steel structures (ICT201)**” from 15/11/2021 to 19/11/2021, organised by NITTTR, Kolkata.
- Participated in one-week lecture series on "**Recent Trends and Practices of Geo-Engineering**" from 15 November – 19 November 2021 organised by CSIR-CBRI.

Professional Skills

Software	Python, MATLAB, Deepsoil, Seismosignal, AUTOCAD, STADD Pro, ArcGIS
Languages	Basic Knowledge of C and C++, basic concepts of SQL

Project Summary

Ph.D. Thesis

Title: *Seismic Microzonation of Varanasi City*

Supervisor: *Prof S.K. Duggal and Dr V.P. Singh*

1. **Duration:** 2016-2022
2. **Organization:** MNNIT Allahabad

B.Tech. Project

- **Title:** *Residential complex at Ram Manohar Lohia Hospital, Lucknow*
 1. **Duration:** 18th June- 5th Aug 2013 (*summer internship*)
 2. **Organization:** Construction & Design Services (C&DS)
 3. **Summary:** The project deals with the constuction of type 4 and type residential complex.
- **Title:** *Eco City*
 1. **Duration:** B.Tech (2010-2014)
 2. **Organization:** BBDNIIT Lucknow
 3. **Summary:** A pilot scale construction project of residential building with maximum utilization of solar energy and waste products.

Publications

- **Sci-Journal**

1. **Singh, M.,** Duggal, S. K., & Singh, V. P. (2021). “A Study to Establish Regression Correlation Between Shear Wave Velocity and “N”-Value for Varanasi City, India.” *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences.* 91, 405–417. doi:10.1007/s40010-020-00686-w
2. Bajpai, M., Katoch, S. S., & **Singh, M.** (2020). “Optimization and economical study of electro-coagulation unit using CCD to treat real graywater and its reuse potential”. *Environmental Science and Pollution Research, 1-11.* doi: 10.1007/s11356-020-10171-x

- **Scopus-Journal**

1. **Singh, M.,** Duggal, S. K., & Singh, V. P. (2021). “Futuristic Study on Seismic Response Analysis of North Indian Soils- A sustainable approach” **Sustainable Futures. (Under Revision)**
2. **Singh, M.,** Duggal, S. K., & Singh, V. P. (2021). “**Seismic Site Response Analysis of Heritage City**”. (In Submission)

- **Lectures Notes (Scopus)**

1. Sharma K.K., Pallav K., **Singh, M.,** Imam Ashhad and Harrison Alvin (2023). “Assessment of Allahabad, India: A Future Smart City”. **Book: Proceedings of 17th Symposium on Earthquake Engineering (Vol. 3).** Springer, Singapore. doi:10.1007/978-981-99-1579-8
2. **Singh M.,** Duggal S.K., Pallav K., Sharma K.K. (2020) “Correlation of Shear Wave Velocity with Standard Penetration Resistance Value for Allahabad City”. In: Prashant A., Sachan A., Desai C. (eds) **Advances in Computer Methods and Geomechanics. Lecture Notes in Civil Engineering,** vol 56. Springer, Singapore, 467–481. doi:10.1007/978-981-15-0890-5_39
3. **Singh M.,** Duggal S.K., Pallav K., Sharma K.K. (2020) “Synthetic Ground Motion Simulation for Varanasi City”. **Local Site Effects and Ground Failures. Lecture Notes in Civil Engineering,** vol 117. Springer, Singapore. doi:10.1007/978-981-15-9984-2_6

- **International/National Conferences**

1. Sharma K.K., Pallav K., Singh, M., Imam Ashhad and Harrison Alvin (2023). “Assessment of Allahabad, India: A Future Smart City.” **17th Symposium on Earthquake Engineering (17SEE), 2022, IIT Roorkee, India.**
2. **Manjari Singh, S.K.** Duggal, V.P. Singh, and Keshav Kr. Sharma. “Synthetic Ground Motion Simulation for Varanasi City.” **7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics (7ICRAGEE), 2021, IISC Bangalore, India.**
3. **Manjari Singh, S.K.** Duggal, Kumar Pallav, and Keshav Kr. Sharma. “Correlation between Shear Wave Velocity & SPT-N Value for Allahabad City.” **International Association for Computer Methods and Advances in Geomechanics (IACMAG)”, 2019, IIT Gandhinagar, India.**

Other Activities

- **External Examiner** for End Semester Oral Examination Even-May 2023 for Diploma second year at VJTI Mumbai.

Consultancy

- Member of consultancy team of VJTI Mumbai in Testing of Material from October 2022-June 2023.

Membership

- Affiliate Member of American Society of Civil Engineers, Credential ID 12238502
- Student Member of American Society of Civil Engineers, 2016-21.

I hereby declare that the information furnished above is true to the best of my knowledge.

(Manjari Singh)