

Dr. Mohit Jaiswal

Ph.D., Structural Engineering, NIT Raipur
M.Tech., Structural Engineering, IIT BHU
B.Tech., Civil Engineering, IIT BHU
Diploma in Business Entrepreneurship, EDI Ahmadabad

Assistant Professor (Grade-I)
Civil Engineering Department, NIT Raipur
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Current Qualification

- Ph.D. on the topic 'Parametric Study of Reinforced Concrete Beams Strengthened by Carbon Fiber Reinforced Polymer Composite Sheets' under the guidance of Dr. G. D. Ramtekkar, Professor, Department of Civil Engineering, NIT-Raipur (2018).
- M.Tech., Integrated Dual Degree, in Civil Engineering with specialization in Structural Engineering from Indian Institute of Technology, Banaras Hindu University (2010).
- Completed one-year Open Learning Diploma in Business Entrepreneurship offered by Entrepreneurship Development Institute of India (EDI), Ahmadabad in association with Friedrich-Naumann-Stiftung, Germany (2008).

Subjects Undertaken

- *Undergraduate*: Design of Steel Structures, Mechanics of Solids, Structural Analysis I & II, and Quantity Surveying and Cost Evaluation.
- *Postgraduate*: Advanced Structural Analysis, Non-Linear Analysis and Advanced Solid Mechanics.
- *Laboratories*: Material Testing Lab, Transportation Engineering Lab, Computer Application in Civil Engineering Lab, and Structural Engineering Design Lab.

Research Publications

- Paul, S.K., Ramtekkar, G.D. & Jaiswal, M. Flexural strengthening of reinforced concrete beams using CFRP: finite element validation and parametric study. *Asian J Civ Eng* 26, 4315–4338 (2025). <https://doi.org/10.1007/s42107-025-01427-3>
- Sahu, R. et al. (2025). A Comparative Exploration of Tensile and Flexural Resistance in Kevlar and Carbon Fiber-Reinforced Thin Composite Structures. In: Pathak, H., Zafar, S. (eds) *Recent Advances in Composite Materials and Structures, Volume 2. CDPMHM 2024. Springer Proceedings in Materials*, vol 74. Springer, Singapore. https://doi.org/10.1007/978-981-96-5707-0_3
- Sahu, R., Gupta, G.K., Ghosh, P.K., Jaiswal, M. (2025). A Study on Surface Treatment Methods of Metal Surface for Metal Fiber Laminates. In: Bhingole, P., Joshi, K., Yadav, S.D., Sharma, A. (eds) *Advances in Materials Engineering. ICFAMMT 2024. Lecture Notes in Mechanical Engineering*. Springer, Singapore. https://doi.org/10.1007/978-981-97-7114-1_4
- Baxi, A., Kumar Patel, D., & Jaiswal, M. (2015). Greywater Reuse: A Feasibility Study for NIT Raipur Residential Buildings *SCIENCE. Science & Technology*, 1(4), 201–206. https://www.discoveryjournals.org/sciencetech/Current_Issue/2015/A26.pdf
- Gunthati, P., & Jaiswal, M. (2020). Flexural Strengthening of Steel Structures with Fiber-Reinforced Polymers and Analysis Using ANSYS. *Lecture Notes in Civil Engineering*, 77(1). 249449. https://doi.org/10.1007/978-981-15-5195-6_21
- Jaiswal, M., & Ramtekkar, G. (2017a). Experimental Study of Reinforced Concrete (RC) Beams Strengthened by Carbon Fiber Reinforced Polymer (CFRP): Effect of Beam Size and Length of CFRP. *International Journal of Applied Engineering Research*, 12(24), 14075–14081. https://www.ripublication.com/ijaer17/ijaerv12n24_15.pdf

- Jaiswal, M., & Ramtekkar, G. (2017b). Modelling of Carbon Fiber Reinforced Polymer (CFRP) Strengthened Reinforced Concrete (RC) Beams: Effect of Beam Size and CFRP Thickness. *International Journal of Civil Engineering and Technology (IJCIET)*, 8(6), 507-516. https://iaeme.com/MasterAdmin/Journal_uploads/IJCIET/VOLUME_8_ISSUE_6/IJCIET_08_06_056.pdf
- Kulkarni, V., & Jaiswal, M. (2020). Numerical And Analytical Study on Axial Compression Behaviour of Pultruded GFRP Members. *Advanced Materials Letters*, 11(9), 20091553-20091553. <https://doi.org/10.5185/amlett.2020.091553>
- Kulkarni, V., Jaiswal, M., & Ramtekkar, G. (2020). Parametric Study of various Cross-Sections of Pultruded Fiber Reinforced Polymer (PFRP) Columns under Axial Compression. *CRSIDE 2020*. Second ASCE India Conference on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies,” Kolkata.
- Satwika, V., & Jaiswal, M. (2022). Comparison of RCC and Post-Tensioned Flat Slabs Using ETABS. *IOP Conference Series: Earth and Environmental Science*, 982(1), 012084. <https://doi.org/10.1088/1755-1315/982/1/012084>
- Uzairuddin, S., & Jaiswal, M. (2022). Digital monitoring and modelling of construction supply chain management scheme with BIM and GIS: An overview. *Materials Today: Proceedings*, 65(2), 1908-1914. <https://doi.org/10.1016/j.matpr.2022.05.160>
- Uzairuddin, S., Murmu, M., & Jaiswal, M. (2021). Advanced Computational Techniques in Structural Analysis. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.3923708>

Lecture Delivered

- Lecture on ‘Structural Engineering and Design: Theory and Practice’ in an AICTE, New Delhi sponsored STTP at BIT Durg, 14-19 October 2019.
- Lecture on ‘Industrial Buildings and Application of Composite Materials in Civil Engineering’ in a TEQIP-III sponsored workshop at CSVTU Bhilai on 26th March 2018.
- Lecture on ‘Earthquake Resistant Construction Technique’ in a training programme sponsored by the Department of Revenue and Disaster Management, Chhattisgarh Government at B.R.P. Government Polytechnic College, Dhamtari on 20th March 2015.

Training & Workshops

- Attended one-day workshop on ‘Capacity building in water governance and technical write-up’ organized by IWWA Raipur at the Department of Civil Engineering NIT Raipur, 08 December 2017.
- Attended a two-week ISTE STTP on Introduction to Structural Engineering, under National Mission on Education through Information and Communication Technology by IIT Kharagpur, 4-9 January 2016.
- Organizing committee member of one-week STTP on ‘Testing methods in civil engineering construction’ Department of Civil Engineering NIT Raipur, 16-20 November 2015.
- Organizing committee member of a national workshop on ‘Water Resource in Developing Countries: Planning and Management’ Department of Civil Engineering NIT Raipur, 27-28 August 2015.
- Attended one-day workshop on ‘Construction of low volume roads on soft soil improved by locally available marginal materials’ organized by the Department of Civil Engineering NIT Raipur, on 14 August 2015.
- Attended one-week STTP on Applied Finite Element Theory and Practice, organized by the Department of Civil Engineering, NIT Silchar, 3-7 August 2015.
- Participated in a training programme on the Use of E-Resources, organized by Central Library, NIT Raipur, 10 September 2014.

- Attended a ten-days Induction Training Programme organized by NITTTR, Bhopal at NIT Raipur from 02 June'14 to 13 June'14.
- Participated in a workshop on 'Academic Ethics and IPR', organized by CGCOST on April 4-5, 2014.
- Attended a three-day workshop on "Computer Analysis of Framed Structures" organized by IVS Noble Solutions, New Delhi 26-28 March'14 under the guidance of Professor Damodar Maity, IIT Kharagpur.
- Coordinated one one-day workshop on "Emerging Dimensions in Civil Engineering" organized by GCET, Greater Noida in Nov'11.
- Participated in a day workshop on "Nature of Science & Scientific Enquiry" organized by GCET, Greater Noida on May'11.
- Coordinated a three-day national conference on "Recent Advances in Civil Engineering" organized by IITBHU.

Skills

MS Office, Auto-CAD, STAAD-Pro, Photoshop, SAP-2000, MATLAB and ANSYS.

Personal Information

Date of Birth:	19-12-1984.
Sex:	Male
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