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Google Scholar: [Google Scholar Profile](#)

ResearchGate: [ResearchGate Profile](#)

Professional Consultancy: [GEOCON CIVIL](#)



RISHAV SINGH

Professional Summary: Civil Engineering academic and researcher with experience in teaching, construction, surveying, geotechnical investigation, structural design, and civil engineering consultancy. Currently pursuing a Ph.D. at Jadavpur University, with professional experience in academia and construction projects.

Research Interests

1. Geotechnical Engineering
2. Sustainable Construction Materials
3. Recycled Construction Materials
4. Ground Improvement
5. Jute Geotextiles
6. Disaster Resilient Infrastructure
7. Structural Engineering
8. Construction Management
9. GIS and Geospatial Applications in Civil Engineering

Education

1. Ph.D. in Civil Engineering (Pursuing) Jadavpur University, Kolkata, India | 2026–Present
Research Topic: *Escalating Cyclonic and Associated Lightning Hazards: Infrastructure-Integrated Assessment for Disaster Management in West Bengal.*
2. M.Tech. in Construction Engineering Jadavpur University, Kolkata, India | 2023
3. B.Tech. in Civil Engineering Dream Institute of Technology, MAKAUT, Kolkata, India | 2016

Academic & Professional Experience

1. Assistant Professor, Department of Civil Engineering
Dream Institute of Technology, Kolkata | Apr. 2024 – Present
2. Assistant Surveyor – Survey & Design
Dilip Buildcon Ltd. | May 2020 – Dec. 2020
3. Site Supervisor
Spaces & Design, Kolkata | Aug. 2019 – Apr. 2020

Courses Taught

1. Engineering Graphics & Design (ES-ME191/ ES-ME 291)
2. Introduction to Civil Engineering (CE(HS)302)
3. Computer-aided Civil Engineering Drawing (CE(ES)392)
4. Surveying & Geomatics (CE(PC)403, CE(PC)493)
5. Concrete Technology (CE(PC)404, CE(PC)494)
6. Design of RC Structures (CE(PC)501, CE(PC)591)
7. Construction Engineering & Management (CE(PC)601)

Research Publications

- [1] "Structural Concrete Block Prepared with Coarse Recycled Concrete Aggregate: From Investigation to Design," FOSET.
- [2] "Manufacturing of Plastic Tiles from Waste Plastic Materials," *MAKAUT Tech Vista*.
- [3] "Blow-by-Blow Investigation and Analysis of Coronavirus," IARA.
- [4] "Waste Plastic and R.C.A.: Only Raw Materials for Plastic Tiles and Blocks," IARA.
- [5] "Immense Enforcement Concrete and Its Applications in the Field of Construction," IARA.
- [6] "Basic Principles of Building Planning," IARA. [Online]. Available: [IARA India](#)

- [7] "Analysis of Wastewater Treatment in India," IARA.
- [8] "Role of Engineers in COVID-19," IARA. [Online]. Available: [IARA India](#)
- [9] "Contribution of Information Technology in Civil Construction," IARA.
- [10] "Proper Ventilation Can Control Indoor Air Pollution in Buildings," IARA.
- [11] "Waste Management of Debris into Durable Blocks Using RCA and Fly Ash," IJIERM.
- [12] "Study on Characteristics of Kolkata Soil Based on Liquefaction Susceptibility," IARA.
- [13] "A Comprehensive Comparative Study Between Howrah Bridge and Second Hooghly Bridge," IARA.
- [14] "Statue of Unity: A Case Study," IARA. [Online]. Available: [IARA India](#)
- [15] "Utilizing Jute Geotextile for Sustainable Ground Improvement in India," *SELP Journal of Social Science*, vol. XVI, no. 60, Jan.–Mar. 2025.
- [16] "Utilizing Jute Geotextile for Sustainable Ground Improvement," *Technical Textiles Today Magazine*. [Online]. Available: [Technical Textiles Today](#)
- [17] "Flood Actions and Structural Response of a G+4 Reinforced Concrete Building in Special Flood Hazard Areas," *Science Explore: An International Journal on Science and Technology*, IARA.

Professional Consultancy Experience

- Conducted Total Station Surveys for residential and commercial projects.
- Supervised and certified Geotechnical Investigation Reports as a KMC Empaneled Geotechnical Engineer.
- Performed building, flat, and land measurements for planning, design, and statutory approvals.
- Prepared site plans, quantity measurements, and technical reports for construction projects.
- Coordinated with clients, architects, and contractors during project execution.

Professional Memberships

1. Institution of Civil Engineers (ICE) – Member
2. American Society of Civil Engineers (ASCE) – Member
3. Indian Geotechnical Society (IGS) – Member
4. International Association of Engineers (IAENG) – Member
5. IFERP – Member

Professional Enlistments

1. KMC Empaneled Geotechnical Engineer
2. KMC Licensed Building Surveyor (LBS)
3. NKDA Empaneled Geotechnical Engineer

External Examiner Experience

1. External Examiner, Practical/Sessional Examination, Odd Semester 2024–25, Institute of Science & Technology, W.B.
2. External Examiner, Practical/Sessional Examination, Even Semester 2024–25, Institute of Science & Technology, W.B.
3. External Examiner, Practical/Sessional Examination, Odd Semester 2025–26, Institute of Science & Technology, W.B.
4. External Examiner, Practical/Sessional Examination, Even Semester 2025–26, Institute of Science & Technology, W.B.

Academic & Administrative Responsibilities

1. Assistant Professor, Department of Civil Engineering, Dream Institute of Technology.
2. IQAC Committee Member, Dream Institute of Technology.
3. Sports Committee Member, Dream Institute of Technology.
4. Digital Media Committee Member, Dream Institute of Technology.
5. SIH Committee Member, Dream Institute of Technology.
6. Fest Committee Member, Dream Institute of Technology.
7. DIT Alumni Committee Member, Dream Institute of Technology.
8. Mentoring Committee Member, Dream Institute of Technology.
9. Admission Calling Committee Member, Dream Institute of Technology.
10. DRCC Convener, Dream Institute of Technology.
11. E-Magazine Committee Member, Dream Institute of Technology.
12. Website Committee Member, Dream Institute of Technology.

Career Highlights

- Supervised residential, commercial, and interior finishing projects, ensuring quality and timely execution.
- Founder & Civil Engineering Consultant, GEOCON CIVIL, providing construction consultancy services.
- 1st Position, Tech Vista 2020 & FOSET Meet 2020 – Paper Presentation.
- 1st Position, M.Tech Thesis Presentation, Jadavpur University – 2023.
- Recipient, Ram Avatar Gupt Award for Academic Excellence.
- KMC Empaneled Geotechnical Engineer & Licensed Building Surveyor (LBS).
- Industrial Training, Simplex Infrastructures Ltd. – Elite Garden Vista, Phase II.
- Practical Construction Training, Tribeni Construction Ltd., Kolkata.
- NPTEL Certified, Concrete Technology – IIT Madras.
- Diploma in Interior Decoration & Designing, Government of West Bengal.

Workshops, FDPs & Professional Training

1. Workshop on Testing of Deep Foundations – Jadavpur University & Pile Dynamics, USA.
2. Topographical Survey & Column Marking Using Total Station – UltraTech Cement Ltd. & SSM Institute of Engineering and Technology.
3. Concrete Technology – NPTEL, IIT Madras.
4. Non-Destructive Evaluation of Structures – UltraTech Cement Ltd.
5. Computational Intelligence in Earthquake-Resistant Design – Indian Society for Earthquake Technology (ISET).
6. ATAL Faculty Development Program on Numerical Modelling & Analysis of Structures under Earthquake Loading – NITTTR Kolkata.
7. ATAL Faculty Development Program on Waste-to-Wealth Innovation – NITTTR Kolkata.
8. Faculty Development Program on Climate Change and Its Impact on Disaster Frequency – Adamas University.
9. FDP on Tackling Urban Flood: Exploring Synergies Between Geospatial Tools & Community-Based Approaches – NIDM & Jadavpur University.
10. Faculty Development Program on Sustainable Engineering for Future Infrastructure – Dream Institute of Technology.
11. Seminar on Remembering Bhuj Earthquake: An Awareness on Seismic Resilience – Jadavpur University.
12. Workshop on Construction Surveying and Field Measurement Techniques.
13. Training in Workplace Safety & Health – Safety Development Society.
14. Diploma in Interior Decoration & Designing – Department of Youth Services, Government of West Bengal.

Technical Skills

- **Engineering Software:** AutoCAD, STAAD.Pro, ArcGIS
- **Office & Documentation:** MS Word, MS Excel, MS PowerPoint
- **Design & Presentation:** Canva

References

Prof. (Dr.) Gupinath Bhandari

Professor, Department of Civil Engineering
Centre for Disaster Preparedness & Management (CDPM)
Jadavpur University, Kolkata – 700032, India
Email: gupinath.bhandari@jadavpuruniversity.in

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