

CURRICULUM VITAE

Manvendra Verma, Ph. D. (DTU)

Among **top 2% Scientists** globally

Post Doctoral Fellow (Online), King Saud University, Riyadh, Saudi Arabia &

Assistant Professor, Department of Civil Engineering,

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SPECIALISATIONS / RESEARCH INTEREST

Concrete Technology, Concrete composite materials, Geopolymer and alkali-activated concrete, Structural Engineering, Durability of Structures, Health assessment of structures, Mechanics of Materials and FEM modelling.

ACADEMIC QUALIFICATIONS

Qualifications	Board/University	Marks Obtained (%)	Year of Passing
Post Doc. (Online)	King Saud University, Riyadh, Saudi Arabia	NA	1 st Jan 2025 onwards
Ph. D. (Structural Engineering)	Delhi Technological University, Delhi, India	Title: Study on Behaviour of Geopolymer Concrete Supervisor: Prof. Nirendra Dev	2021
M. Tech (Structural Engineering)	National Institute of Technology Srinagar, (J&K)	70.16	2016
B. Tech (Civil Engineering)	Uttar Pradesh Technical University, Lucknow	70.80	2014
12 th	Jawahar Navodaya Vidyalaya Orai Jalaun	77.40	2010
10 th	Jawahar Navodaya Vidyalaya Orai Jalaun	72.40	2008

RESEARCH /TEACHING EXPERIENCE

- **Assistant Professor**, Department of Civil Engineering, GLA University, Mathura, Uttar Pradesh, India. Duration: 3rd October 2022 to **Present**.
- **Assistant Professor**, Department of Civil Engineering, Dr Akhilesh Das Gupta Institute of Technology and Management, New Delhi. Duration: 1st August 2021 to 30th September 2022.
- **Senior Research Fellow (SRF)** at Delhi Technological University, Delhi. Duration: 9th Oct 2018 to 31st July 2021.
- **Junior Research Fellow (JRF)** at Delhi Technological University, Delhi. Duration: 1st Aug 2016 to 8th Oct 2018.

COURSES /SUBJECTS TAUGHT

<i>Bachelors (B. Tech)</i>	<i>Masters(M.Tech & MBA Construction Management)</i>
<ul style="list-style-type: none">• <i>Fundamental of Mechanics</i>• <i>Mechanics of Solids</i>• <i>Structural Analysis</i>• <i>Concrete Technology</i>	<ul style="list-style-type: none">• Advanced Concrete Technology• Retrofitting of Structures• Repair, Retrofitting and Maintenance of Structures

ADMINISTRATIVE EXPERIENCE

- In charge of “Advanced Construction Engineering Research Centre” Department of Civil Engineering, GLA University, Mathura. (October 2022 – till now)
- PhD Coordinator, Department of Civil Engineering, GLA University, Mathura.
- NAAC Criteria 3 Co-ordinator in Department of Civil Engineering, GLA University, Mathura.
- Area Chair of Structural Engineering Section in Department of Civil Engineering, GLA University, Mathura.

1. **M. Verma**; N. Dev, "Sodium hydroxide effect on the mechanical properties of fly ash-slag based geopolymer concrete" *Structural Concrete*, 22(S1), E368-379, 2021. ISSN: 1751-7648 (IF 3.2) DOI: [10.1002/suco.202000068](https://doi.org/10.1002/suco.202000068)
2. **M. Verma**; N. Dev, "Effect of Liquid to Binder Ratio and Curing Temperature on the Engineering Properties of the Geopolymer Concrete" *Silicon*, 14 (2022), 1743-1757, 2022. ISSN: 1876-9918 (IF 3.4) DOI: [10.1007/s12633-021-00985-w](https://doi.org/10.1007/s12633-021-00985-w)
3. **M. Verma**; N. Dev, "Effect of Ground Granulated Blast Furnace Slag and FlyAsh ratio and the curing conditions on the Mechanical Properties of Geopolymer Concrete," *Structural Concrete*, 23(4), 2015-2029, 2022. ISSN: 1751-7648 (IF 3.2) DOI: [10.1002/suco.202000536](https://doi.org/10.1002/suco.202000536)
4. **M. Verma**; N. Dev, "Effect of SNF-Based Superplasticizer on Physical, Mechanical and Thermal Properties of the Geopolymer Concrete" *Silicon*, 14(2022), 965-975, 2022. ISSN: 1876-9918 (IF 3.4) DOI: [10.1007/s12633-020-00840-4](https://doi.org/10.1007/s12633-020-00840-4)
5. R. Kumar; **M. Verma**; N. Dev, "Investigation on the effect of seawater condition, sulfate attack, acid attack, Freeze-thaw condition, and wetting-drying on the Geopolymer concrete," *Iranian Journal of Science and Technology Transactions of Civil Engineering*, 46(2022), 2823–2853, 2022. ISSN: 2364-1843 (IF 1.7) DOI: [10.1007/s40996-021-00767-9](https://doi.org/10.1007/s40996-021-00767-9)
6. **M. Verma**; N. Dev; I. Rahman; M. Nigam; M. Ahmed; J. Mallick, "Geopolymer Concrete: A Material for Sustainable Development in Indian Construction Industries" *Crystals*, 2022 (12), 514, 2022. ISSN: 2073-4352 (IF 2.7) DOI: [10.3390/cryst12040514](https://doi.org/10.3390/cryst12040514)
7. A. Chouksey; **M. Verma**; N. Dev; I. Rahman; K. Upreti, "An investigation on the effect of curing conditions on the mechanical and microstructural properties of the geopolymer concrete" *Materials Research Express*, 9 (2022), 055003, 2022. ISSN: 2053-1591 (IF 2.3) DOI: [10.1088/2053-1591/ac6be0](https://doi.org/10.1088/2053-1591/ac6be0)
8. **M. Verma**; K. Upreti; P. Vats; S. Singh; P. Singh; N. Dev; D. K. Mishra; B. Tiwari "Experimental Analysis of Geopolymer Concrete: A Sustainable and Economic Concrete using Cost Estimation Model" *Advances in Materials Science and Engineering*, 1-16, 2022. ISSN: 1687-8442 (IF 2.098) DOI: [10.1155/2022/7791582](https://doi.org/10.1155/2022/7791582)
9. R. Kumar; **M. Verma**; N. Dev; N. Lamba, "Influence of chloride and sulfate solution on the long-term durability of modified rubberized concrete" *Journal of Applied Polymer Science*, 2022 (139), 1-15, 2022. ISSN: 1097-4628 (IF 3.0) DOI: [10.1002/app.52880](https://doi.org/10.1002/app.52880)
10. K. Upreti, **M. Verma**, M. Agrawal, J. Garg, R. Kaushik, C. Agrawal, D. Singh, R. Narayanasamy, "Prediction of Mechanical Strength by using Artificial Neural Network and Random Forest Algorithm" *Journal of Nanomaterials*, 1-12, 2022 ISSN: 1687-4129 (IF 3.791) DOI: [10.1155/2022/7791582](https://doi.org/10.1155/2022/7791582)
11. **M. Verma**, A. Chouksey, R. K. Meena, I. Singh, "Analysis of the properties of recycled aggregates concrete with lime and metakaolin" *Materials Research Express*, 10, 095508, 2023. ISSN: 2053-1591 (IF 2.3) DOI: [10.1088/2053-1591/acf983](https://doi.org/10.1088/2053-1591/acf983)
12. **M. Verma**, R. K. Meena, I. Singh, N. Gupta, K K Saxena, M M Reddy, K H Salem, U Salmaan "Investigation on the impact of elevated temperature on sustainable geopolymer composite" *Advances in Mechanical Engineering*, 15 (9), 1-16, 2023. ISSN: 1687-8140 (IF 2.1) DOI: [10.1177/16878132231196402](https://doi.org/10.1177/16878132231196402)
13. U. Sharma, N. Gupta, A. Bahrami, Y. O. Özkılıç, **M. Verma**, P. Berwal, E. Althaqafi, M. A. Khan, S. Islam, "Behavior of Fibers in Geopolymer Concrete: A Comprehensive Review" *Buildings*, 14 (136), 1-28, 2024. ISSN: 2075-5309 (IF 3.8) DOI: [10.3390/buildings14010136](https://doi.org/10.3390/buildings14010136)
14. **M. Verma**, R. K. Meena, M. I. Khan, J. M. Khatib "Analysis of the effect of curing and mixing periods on mechanical properties of the geopolymer composite" *Materials Science-Poland*, 42(4), 131-147, 2024. ISSN: 2083-134X (IF 1.5) DOI: [10.2478/msp-2024-0050](https://doi.org/10.2478/msp-2024-0050)

1. M. Nigam; **M. Verma** "Effect of Nano-silica on the fresh and mechanical properties of conventional concrete" *Forces in Mechanics*, 10 (2023), 100165. ISSN: 2666-3597. DOI: [10.1016/j.finmec.2022.100165](https://doi.org/10.1016/j.finmec.2022.100165)
2. R. Kumar, N. Dev, S. Ram, **M. Verma** "Investigation of dry-wet cycles effect on the durability of modified rubberised concrete" *Forces in Mechanics*, 10 (2023), 100168, 2023. ISSN: 2666-3597. DOI: [10.1016/j.finmec.2023.100168](https://doi.org/10.1016/j.finmec.2023.100168)
3. U. Sharma; N. Gupta; **M. Verma** "Prediction of the compressive strength of Flyash and GGBS incorporated geopolymer concrete using artificial neural network" *Asian Journal of Civil Engineering*, 24 (8), 2837–2850, 2023. ISSN: 2522-011X DOI [10.1007/s42107-023-00678-2](https://doi.org/10.1007/s42107-023-00678-2)

4. U. Sharma; N. Gupta; **M. Verma** “Prediction of Compressive Strength of GGBFS and Flyash based Geopolymer Composite by Linear Regression, Lasso Regression and Ridge Regression” Asian Journal of Civil Engineering, 24 (8), 3399–3411, 2023. ISSN: 2522-011X DOI: [10.1007/s42107-023-00721-2](https://doi.org/10.1007/s42107-023-00721-2)
5. **M. Verma** “Prediction of compressive strength of geopolymer concrete using random forest machine and deep learning” Asian Journal of Civil Engineering, 24 (7), 2659-2668, 2023. ISSN: 2522-011X DOI: [10.1007/s42107-023-00670-w](https://doi.org/10.1007/s42107-023-00670-w)
6. **M. Verma** “Prediction of compressive strength of geopolymer concrete by using ANN and GPR” Asian Journal of Civil Engineering, 24 (8), 2815–2823, 2023. ISSN: 2522-011X DOI: [10.1007/s42107-023-00676-4](https://doi.org/10.1007/s42107-023-00676-4)
7. N. Jayanthi; T. Ghosh; R. K. Meena; **M. Verma** “Length and width of low-light, concrete hairline crack detection and measurement using image processing method” Asian Journal of Civil Engineering, 25(3), 2705–2714, 2024. ISSN: 2522-011X <https://doi.org/10.1007/s42107-023-00939-0>
8. M. Nigam; **M. Verma** “Prediction of compressive strength of nano-silica concrete by using random forest algorithm” Asian Journal of Civil Engineering, 25 (7) 5205 - 5213, 2024. ISSN: 2522-011X. <https://doi.org/10.1007/s42107-024-01107-8>
9. R. Kumar; **M. Verma**; N. Dev “Analysis of PCE-based Superplasticiser for the Different Types of Cement using Marsh Cone Test” Evergreen, 11, 2, 665-672, 2024. ISSN: 2189 0420.
10. M Gupta; K Upreti; S Yadav; **M Verma**; M. Mageswari; A Tiwari “Assessment of ML techniques and suitability to predict the compressive strength of high-performance concrete (HPC)” Asian Journal of Civil Engineering, 25(8), 5741–5752, 2024. ISSN: 2522-011X. <https://doi.org/10.1007/s42107-024-01142-5>
11. C Garcia; A. I. A. Valle; S H Muhodir; K. C. Onyelowe; H Imran; S. N. Henedy; B. M. Chilakala; **M. Verma** “The quintenary influence of industrial wastes on the compressive strength of high-strength geopolymer concrete under different curing regimes for sustainable structures; a GSVR-XGBoost hybrid model” Frontiers in Built Environment, 10, 2024. ISSN: 2297-3362 <https://doi.org/10.3389/fbuil.2024.1433069>
12. **M. Verma** “Investigation Of The Soil Composites Materials Mechanical Properties” Nanotechnology Perceptions, 20 (6), 810-827, 2024. ISSN: 1660-6795 <https://nano-ntp.com/index.php/nano/article/view/2736>
13. S Kumari, S Jaglan, A Chouksey, R Walia, A Ahlawat, A Garg, **M Verma** “Carbon Footprint Analysis of Cement Production in India” Evergreen, 11 (2), 2881-2889, 2024. ISSN: 2189 0420.
14. N Sharma, VR Patel, **M Verma** “Analysis of novel structural approaches for tall structures with Voronoi tessellation: a path forward” Asian Journal of Civil Engineering, In press, 1-13, 2024. ISSN: 2522-011X. <https://doi.org/10.1007/s42107-025-01480-y>
15. A Dhawan, **M Verma** “Optimization of Geopolymer Concrete Mix Design Using Machine Learning for Enhanced Sulphate and Chloride Resistance” Asian Journal of Civil Engineering, In press, 2024. ISSN: 2522-011X. <https://doi.org/10.1007/s42107-025-01503-8>
16. **M Verma**; U Sharma “Prediction and comparison of compressive strength of geopolymer concrete by using decision tree and random forest regression model” Asian Journal of Civil Engineering, In press, 2024. ISSN: 2522-011X. <https://doi.org/10.1007/s42107-025-01506-5>
17. **M Verma** “Reliability Analysis of Compressive Strength of Brick, Conventional Concrete and Geopolymer Concrete by using ANN” Asian Journal of Civil Engineering, In press, 2024. ISSN: 2522-011X. DOI: [10.1007/s42107-025-01522-5](https://doi.org/10.1007/s42107-025-01522-5)
18. P Kumar, **M Verma**, P Kumar, P Sahu, S K Yadav, G C Kisku “Qualitative and Quantitative Analyses of Hazardous Compounds from NTPC Rihand, India” Evergreen, 12(3), 1402-1417, 2024. ISSN: 2189 0420. DOI: [10.5109/8363464](https://doi.org/10.5109/8363464)

WEB OF SCIENCE INDEXED JOURNAL PAPER

(10)

1. P. K. Tiwari; **M. Verma** “Forecasting of Crushing Strength of Sustainable Concrete by Employing Deep and Random Forest Machine Learning” Journal of Polymer & Composites, 12 (7), 85-90, 2024. ISSN: 2321-8525
2. A. Chouksey, N. Dev, VVL Kantarao, **M Verma** “Application of Paper Mill Lime Sludge Waste in Building Construction Material: State of The Art Report” Journal of Polymer & Composites, 12 (7), 172–187, 2024.
3. R K Meena, A P Paswan, P Roshan, **M Verma** “Aerodynamic Influences on Structures with Varied Plan Configurations” Journal of Polymer & Composites, 13 (1), 377-389, 2025. ISSN: 2321-8525
4. A Chouksey, K Puri, A Ahlawat, **M Verma** “Impact of Polymer Chemistry on Population and Land Use Pattern to Identify Black Spot” Journal of Polymer & Composites, 13 (1), 540-558, 2025. ISSN: 2321-8525
5. A Agrawal, **M Verma**, A Kumar “Comparative Analysis of Using Rubber Isolator and Friction Isolator in G+8 Building by SAP 2000” Journal of Polymer & Composites, 13 (1), 479-487, 2025. ISSN: 2321-8525

6. M Nigam, **M Verma** “Mechanical Strength Prediction of Nano-Silica Concrete Composites Using Machine Learning Techniques” *Journal of Polymer & Composites*, 13 (1), S963–S973 , 2025. ISSN: 2321-8525
7. S Kumar, S Gupta, P K Gupta, **M Verma** “Quantification and Forecasting of Plastic Waste in Gorakhpur City, India” *Journal of Polymer & Composites*, 13 (1), S946–S962, 2025. ISSN: 2321-8525
8. A Dhawan, **M Verma** “Sustainable Concrete Solutions: Chemically Predictive Modeling of Geopolymer Versus Ordinary Concrete in a Circular Economy” *Journal of Polymer & Composites*, 13(5), 170-192, 2025.
9. A Dhawan, **M Verma** “Durability Assessment of Geopolymer and OPC Concretes under Chloride and Sulphate Chemical Attack” *Journal of Polymer & Composites*, 13(5), 202-218, 2025. ISSN: 2321-8525
10. A Dhawan, **M Verma** “Investigation of Sulphate, Alkali and Carbonation Chemical attack in GGBS- Based Geopolymer Concrete and OPC Concrete” *Journal of Polymer & Composites*, 13(6), 13-35, 2025.

UGC AND REFEREED JOURNALS PAPERS

(11)

1. A Dhawan, M Verma, R Goel “Effect Of An Inorganic Compound On Geopolymer Concrete And Ordinary Portland Cement Concrete” *Library Progress International*, 44(3), 8368-8383, 2024. <https://doi.org/10.48165/bapas.2024.44.2.1>
2. A Dhawan, M Verma, R Goel “Evaluating Economic indexing between various kinds of Geopolymer Concrete to Ordinary Cement Concrete” *Library Progress International*, 44(3), 4939-4955, 2024. <https://doi.org/10.48165/bapas.2024.44.2.1>
3. **M Verma**, A Chouksey “A Case Study on the Construction and Estimation of Materials Composites for Superstructure of a Railway Cross Overhead Bridge” *Journal of Engineering Research and Application*, 3(1), 1-17, 2024, ISSN: 2583-3987. DOI:10.55953/JERA.2024.1.1
4. **M Verma**, A Chouksey “Investigation of the Parameters on Asphalt Composites Pavement Design” *Journal of Engineering Research and Application*, 3(1), 18-40, 2024, ISSN: 2583-3987. DOI: 10.55953/JERA.2024.1.2
5. M Nigam, **M Verma** “Concrete Performance with Hypo Paper Sludge and Hybrid Fibers” *Journal of Engineering Research and Application*, 3(1), 41-51, 2024, ISSN: 2583-3987. DOI:10.55953/JERA.2024.1.3
6. A Singh, S Gupta, **M Verma**, “Flexural Behaviour of Lightweight Eco-friendly Concrete” *Journal of Engineering Research and Application*, 3(1), 52-66, 2024, ISSN: 2583-3987. DOI: 10.55953/JERA.2024.1.4
7. A Pathak, S Gupta, **M Verma**, S Kumar “Investigation on the Effect of Coconut Shell and Polypropylene Fibers on Engineering Properties of Concrete” *Journal of Engineering Research and Application*, 3(1), 67-86, 2024, ISSN: 2583-3987. DOI: 10.55953/JERA.2024.1.5
8. **M. Verma**, S. K. Yadav, “A Review on Effect of Construction Industries on Ambient Air” ” *Journal of Engineering Research and Application*, 2(2), 7-18, 2023, ISSN: 2583-3987. DOI: 10.55953/JERA.2023.2202
9. **M. Verma**, S. K. Yadav, “Construction and Demolition Waste Utilisation as Recycled Concrete Aggregate in Concrete: A State of Art” *Journal of Engineering Research and Application*, 2(2), 31-35, 2023, ISSN: 2583-3987. DOI: [10.55953/JERA.2023.2205](https://doi.org/10.55953/JERA.2023.2205)
10. K. Upreti; **M. Verma**, “Prediction of Compressive Strength of Geopolymer Concrete using Artificial Neural Network” *Journal of Engineering Research and Application*, 1(2), 24-32, 2022, ISSN: 2583-3987. DOI: [10.55953/JERA.2022.2104](https://doi.org/10.55953/JERA.2022.2104)
11. **M. Verma**; N. Dev, “Geopolymer concrete: A way of sustainable construction,” *International Journal of Recent Research Aspects*, 5(1), 201-205, 2018. ISSN: 2349-7688
12. **M. Verma**; M. Nigam, “Mechanical Behaviour of Self Compacting and Self Curing Concrete” *International Journal of Innovative Research in Science, Engineering and Technology*, 6 (7), 14361–366, 2017. ISSN: 2347-6710 DOI: [10.15680/IJRSET.2017.0607245](https://doi.org/10.15680/IJRSET.2017.0607245)
13. **M. Verma**; N. Dev, “Review on effect of different parameters on the behaviour of geopolymer Concrete” *International Journal of Innovative Research in Science, Engineering and Technology*, 6 (6), 11276–281, 2017. ISSN: 2347-6710 DOI: [10.15680/IJRSET.2017.0606210](https://doi.org/10.15680/IJRSET.2017.0606210)

SCOPUS-INDEXED BOOK CHAPTERS

(4)

1. **M. Verma** “Utilizing Construction and Demolition Waste as Recycled Aggregates in Sustainable building Practices” *Sustainable Approaches to Environmental Design, Materials Science, and Engineering Technologies*, Vol. 1, 229-234, 2025. ISBN: 978-3-031-76025-9 *Advances in Science, Technology & Innovation*, https://doi.org/10.1007/978-3-031-76025-9_22
2. **M. Verma**; K. Upreti; M. R. Khan; M. S. Alam; S. Ghosh; P. Singh “Prediction of Compressive Strength of Geopolymer Concrete by Using Random Forest Algorithm” 2022 *International Conference on Advanced*

Communication and Intelligent Systems (ICACIS), Communications in Computer and Information Science, 1749, 170–179, 2023. ISBN: 978-3-031-25088-0 DOI: [10.1007/978-3-031-25088-0_14](https://doi.org/10.1007/978-3-031-25088-0_14)

3. **M. Verma**; K. Upreti; P. Dadhich; S. Ghosh; V. Khatri; P. Singh “Prediction of Compressive Strength of Green Concrete by Artificial Neural Network” 2022 International Conference on Advanced Communication and Intelligent Systems (ICACIS), Communications in Computer and Information Science, 1749, 622–632, 2023. ISBN: 978-3-031-25088-0 DOI: [10.1007/978-3-031-25088-0_55](https://doi.org/10.1007/978-3-031-25088-0_55)
4. N. Kumar; R. D. Raut; K. Upreti; M. S. Alam; M. Saifuddin; **M. Verma**, “Environmental Concern in TPB Model for Sustainable IT Adoption” International Conference on Information Systems and Intelligent Applications, Lecture Notes in Networks and Systems 550, 59-70, 2023. ISBN: 978-3-031-16865-9 Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-16865-9_5

CONFERENCE PROCEEDING PUBLICATIONS

(8)

1. **M. Verma**; M. Nigam “Experimental Investigation on the Properties of Geopolymer Concrete after Replacement of River Sand with the M-Sand” AIP Conference Proceedings, 2721(1), 020029, 2023. ISSN No: 1551-7616 DOI: [10.1063/5.0154113](https://doi.org/10.1063/5.0154113)
2. **M. Verma**; M. Nigam “Effect of FRP on the Strength of Geopolymer Concrete” AIP Conference Proceedings, 2721(1), 020030, 2023. ISSN No: 1551-7616 DOI: [10.1063/5.0154114](https://doi.org/10.1063/5.0154114)
3. **M. Verma**; M. Nigam “Investigation on the Effect of Curing Time on the Mechanical Properties of Geopolymer Concrete” AIP Conference Proceedings, 2721(1), 020031, 2023. ISSN No: 1551-7616 DOI: [10.1063/5.0154116](https://doi.org/10.1063/5.0154116)
4. **M. Verma**; N. Dev (2020), “Effect of Superplasticiser on Physical, Chemical and Mechanical Properties of the Geopolymer Concrete” Second ASCE India conference on ‘Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE2020)’ AIC2020-316-811, 1183-1189, March 2–4, 2020, Kolkata, India. ISBN No. – 978-93-5396-500-6
5. **M. Verma** (2022) “FRP effects on the strength of Geopolymer Effect of Concrete” International e-Conference on Sustainable Development & Recent Trends in Civil Engineering, 4th -5th January 2022, ISBN NO: 978-93-5593-431-4.
6. **M. Verma** (2022) “Experimental investigation on the properties of Geopolymer concrete after replacement of river sand with the M-sand” International e-Conference on Sustainable Development & Recent Trends in Civil Engineering, 4th -5th January 2022, ISBN NO: 978-93-5593-431-4.
7. **M. Verma**; A. Juneja; D. Saini (2022) “Effect of waste tyre rubber in the concrete” International e-Conference on Sustainable Development & Recent Trends in Civil Engineering, 4th -5th January 2022, ISBN NO: 978-93-5593-431-4.
8. R. Kumar; **M. Verma**; N. Dev (2022) “Investigation of fresh, mechanical, and impact resistance properties of rubberised concrete” International e-Conference on Sustainable Development & Recent Trends in Civil Engineering, 4th -5th January 2022, ISBN NO: 978-93-5593-431-4.

RESEARCH GUIDANCE

Candidate Name	Program	Title Of Project	Guided /Ongoing
Ujjwal Sharma (199100002)	Ph.D. (Co-Supervisor)	Prediction of Compressive Strength of Geopolymer Concrete Using Various Machine Learning Algorithms	Guided (2023)
Mayank Nigam (2191010003)	Ph.D. (Sole Supervisor)	Reliability analysis on the effect of nano-silica on conventional concrete by using machine learning	Thesis Submitted
Anshul Agrawal (2181010001)	M. Tech (Structural Engineering)	Comparative Analysis of Using Rubber Isolator and Friction Isolator in G+8 Building by SAP 2000	Guided (2024)
Rahul (2184160007)	MBA (Construction Management)	Microsoft Project And Primavera For Scheduling And Planning	Guided (2023)
Narendra Singh Sikarwar (2184160006)	MBA (Construction Management)	Faridabad Site Warehouse Construction (Estimation And Quantities)	Guided (2023)
Anuj Yadav (2184160003)	MBA (Construction Management)	Halol Site Warehouse Construction (Boq, Estimation)	Guided (2023)
Mratunjay Bhardwaj (2284160002)	MBA (Construction Management)	Brief Report on the Jewar Airport Construction Project	Guided (2024)
Parul Jaiswal (2284160003)	MBA (Construction Management)	Construction of National Capital Region Transport Corporation New Ashok Nagar DN Ramp to Sahibabad UP	Guided (2024)

		Ramp	
Pravesh Kumar Tiwari	Ph.D. (Sole Supervisor)	Machine learning Techniques to predict mechanical properties	Ongoing (GLA)
Akshay Dhawan (199101001)	Ph.D. (Sole Supervisor)	Evaluating Economic indexing between various kinds of Geopolymer Concrete to Ordinary Cement Concrete	Ongoing (GLA)
Devendra Singh	Ph.D. (Co-Supervisor)	Study on the behaviour of construction and demolition waste used as recycled concrete aggregates in conventional concrete	Ongoing (AKTU)

CONFERENCE PAPERS PRESENTED

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- **M . Verma** “Utilizing Construction and Demolition Waste as Recycled Aggregates in Sustainable Building Practices” International Conference on “Environmental Design, Material Science, and Engineering Technologies (EDMSET 2024) ” Organised by Abu Dhabi University & IEREK, Dubai, UAE held on 22nd -24th April 2024.
- **M. Verma** “Evaluating the Different Bracing Pattern Used in Complex Buildings” 3rd International Conference on Material Science, Smart Structures and Applications (ICMSS 2023) organised by the Department of Mechanical Engineering & Department of Electronic and Communication Engineering, Surya Engineering College, Erode, Tamil Nadu, India held on 27th – 28th March 2023.
- **M. Verma** “A Comprehensive study for the Multimodal biometrics using open CV” International Conference on Communication, Security and Artificial Intelligence (ICCSAI-2022) held on 23-24th December 2022, organised by Galgotias University, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India.
- **M. Verma** “A Review on Effects of Waste Tire Rubber on Fresh, Mechanical, and Impact Resistance Properties of Rubberized Concrete” 3rd International Conference on Futuristics and Sustainable Aspects in Engineering and Technology (FSAET 2022) held on 11th -13th November 2022, organised by Department of Civil Engineering, GLA University, Mathura, Uttar Pradesh, India.
- **M. Verma**, “Prediction of Compressive strength of Geopolymer Concrete by using Random Forest Algorithm” 2022 International Conference on Advanced Communication and Intelligent Systems (ICACIS), organized on October 21-22, 2022 by Warsaw Management University, Poland.
- **M. Verma** “Prediction of Compressive strength of Green Concrete by Artificial Neural Network”, 2022 International Conference on Advanced Communication and Intelligent Systems (ICACIS), organized on October 21-22, 2022 by Warsaw Management University, Poland.
- **M. Verma** “Experimental investigation on the properties of Geopolymer concrete after the replacement of river sand with M-sand” International e-Conference on Sustainable Development and Recent Trends in Civil Engineering (ICSVRT-2022), 4th -5th January 2022, ADGITM, New Delhi.
- R. Kumar; N. Dev; **M. Verma** “Assessment of the effect of superplasticiser on the different type of cement-based on marsh cone test.” 6th International Conference on Advanced Production and Industrial Engineering (ICAPIE), 18 – 19th June 2021, DTU, Delhi, India.
- **M. Verma**; N. Dev “Geopolymer Concrete: A Sustainable and Economic Concrete” Sustainable Energy Systems: Innovative Perspectives (SES 2020), 8th – 10th October, 2020.
- **M. Verma**; N. Dev “Effect of Superplasticiser on Physical, Chemical and Mechanical Properties of the Geopolymer Concrete” International conference on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies”, March 2–4, 2020, Kolkata, India.
- **M. Verma**; N. Dev, “Geopolymer concrete: A way of sustainable construction.” 3rd Go Green Summit, 23rd-24th March 2018, Manila, Philippines.

PATENT (PUBLISHED OR GRANTED)

(5)

- **M. Verma**; A. Chouksey; S. K. Yadav; R. D. Raut; N. Kumar; N. Dev; S. A. Panwar; K. Upreti “Smart IoT Based Women Safety Monitoring Wrist Band” Application/Design No. 362786-001, filed on 19/04/2022, issued on 20/09/2022. (No. 116940)
- **M. Verma**; A. Chouksey; S. K. Yadav; R. D. Raut; D. Singh; N. Dev; S. A. Panwar; K. Upreti “IOT Based Wireless Sensor Apparatus” Application No. 362787-001, Sr No. 152020, filed at 19/04/2022 issued at 05/01/2024.
- S. Ghosh; D. Gangwar; S. Upreti; K. Upreti; **M. Verma**; G. Singh; N. Kumar “Solar Powered Animal Repellent for Agricultural Field” Application/Design No. 372456-001, filed at 12/10/2022, issued at 14/02/2023. (No. 129116)

- M. Nigam; **M. Verma**; S. Raza “Rucksack load carrier”, Application No. 202111057316, filed on 9/12/2021, published on 17/12/2021 & granted on 14/03/2024 with patent no. 525759.
- M. Nigam; **M. Verma**; S. Raza; “Tank Enables Manual Auger”, Application No. 202211021686, filed on 11/04/2022, published on 27/01/2023.

AWARDS, RECOGNITION OR ACHIEVEMENTS (7)

- Research Appreciation Award by GLA University, Mathura for significant contribution in research for 2023.
- Recognised in the top 2% of scientists globally in a list released by Elsevier and Stanford University, USA, 2024.
- Recognised as Top Cited Article of Structural Concrete Journal from 1st January 2021 to 31st December 2023.
- 6th Commendable Research Award organised by the Delhi Technological University, Delhi, India 6th April 2023.
- Recognised as Top Cited Article of Structural Concrete Journal from 1st January 2021 to 15th December 2022.
- 5th Commendable Research Award organised by the Delhi Technological University, Delhi, India 3rd March 2022.
- DTU Fellowship for PhD by Delhi Technological University, Delhi.

MEMBER OF INSTITUTIONAL BODIES (5)

Society/Association	Membership	W. E. F.
Institution of Engineers (India)	Associate Member (AM1948558)	September 2020
Institution of Engineers (India)	Chartered Engineer (India)	October 2020
Indian Society for Technical Education	Life Member (LM 137330)	June 2023
Indian Concrete Institute	Life Member (LM 13892)	June 2023
International Association for Automation and Robotics in Construction (IAARC)	Member	August 2023

CONFERENCE/FDP/WORKSHOP ORGANISED (4)

- **Publication Chair** of the International Conference on “Sustainable Practices and Advances in Civil Engineering (SPACE 2024)” held on 14th -16th November 2024 which was organised by the Department of Civil Engineering, GLA University, Mathura, Uttar Pradesh, India.
- **Organising Secretary** of the 4th International Conference on “Futuristic and Sustainable Aspects in Engineering and Technology (FSAET 2023)” held on 28-30th November 2023 which was organised by the Department of Civil Engineering, GLA University, Mathura, Uttar Pradesh, India.
- **Co-Convenor** of the 3rd International Conference on “Futuristic and Sustainable Aspects in Engineering and Technology (FSAET 2022)” held on 11-13th November 2022 which was organised by the Department of Civil Engineering, GLA University, Mathura, Uttar Pradesh, India.
- **Committee Member** of “International e-Conference on Sustainable Development and Recent Trends in Civil Engineering (ICSVRT-2022), 4th -5th January 2022, Dr Akhilesh Das Gupta Institute of Technology and Management, New Delhi, India.

PROFESSIONAL TRAINING (4)

- Short-Term Course on “Recent advances in Civil and Environmental Engineering” Jointly organised by NIT Delhi & NIT Jalandhar from 24th – 28th June 2024.
- National Level Training Programme “GEO-METROLOGICAL HAZARD RISK MANAGEMENT” Jointly Organised by the National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India and Department of Civil Engineering, Delhi Technological University, Delhi, during February 10-14, 2020.
- Short-Term Training Programme on “Application of Techniques/Tools in Engineering” School of Engineering and School of Vocational Studies & Applied Sciences, Gautam Buddha University, Greater Noida, Uttar Pradesh, 9th – 14th October 2017.
- In 3rd year B. Tech Summer Break: 6 weeks training in U.P. State Bridge Corporation Limited, 14th June 2013 to 6th August 2013.

FDP and WORKSHOP ATTENDED (11)

- International virtual workshop on “GLOBAL SEISMOLOGY & TECTONICS IVWGST 2021” from 20 to 30 September 2021, organized by CSIR North East Institute of Science and Technology, Jorhat.
- Five days faculty development program on “Emerging Trends in Civil Engineering” organized by the Department of Civil Engineering of Gates Institute of Technology held from 25/07/2020 to 29/7/2020.
- Three days faculty development programs on “Innovative Trends in Civil Engineering” organized by the Department of civil engineering R. R. Institute of Technology from 22/07/2020 to 24/7/2020.
- Three days Short Term Courses (Online) on “Recent Developments in Concrete and Assessment of RCC Structures.” Organised by Civil Engineering Department, Rajasthan Technical University, Kota as part of the TEQIP III Twinning activity with the Construction Engineering Department, Jadavpur University, Kolkata from 6th – 8th July 2020.
- Indo - China webinar series jointly initiated by faculties from Shantou University, China, Vardhaman College of Engineering, Hyderabad, Indian Geotechnical Society Surat Chapter, SVNIT Surat and Qingdao University of Technology, China during 8th - 19th May 2020.
- TEQIP–III Sponsored One Week Faculty Development Programme on “Disaster Mitigation and Management” organised by the Department of Civil Engineering, Delhi Technological University, Delhi, with Twinning partner MITS Gwalior during November 25-29, 2019.
- TEQIP–III Sponsored the International Workshop on “Geohazards and Risk Reduction Initiatives in South and South-East Asia (GeoRiskSEA-2019)” organised by the Department of Civil Engineering, Delhi Technological University, Delhi, during November 21-22, 2019.
- Six days workshop on “EXPLORING ENGINEERING.” Conducted by Centre for Extension and Outreach, Delhi Technological University from June 10th – 15th, 2019.
- TEQIP–III Sponsored One Week Faculty Development Programme on “EARTHQUAKE RESISTANT DESIGN AND STRUCTURES” organised by the Department of Civil Engineering, Delhi Technological University, Delhi, during May 27-31, 2019.
- The workshop “E-Resources – A Gateway for Research, 3 Ed. (2018)” organised by the Central Library, Delhi Technological University, was held from 10th September 2018 to 14th September 2018.
- Two days National Workshop on “NBC 2016 & Recently Revised Seismic Codes – Impact on Structural Design, Construction & Safety of Buildings” Organised Jointly by the Indian Association of Structural Engineers (IAStructE) and Bureau of Indian Standards (BIS) at the LakshmiPat Singhania Auditorium, PHD Chamber of Commerce & Industry, New Delhi during 27th & 28th June 2017.

REVIEWERS IN SCI or SCOPUS INDEXED JOURNALS

- | | |
|--|---|
| 1. Journal of Computing in Civil Engineering (ASCE) | 11. Advances in Civil Engineering (Wiley) |
| 2. Structures (Elsevier) | 12. Advances in Materials and Processing Technologies (Taylor & Francis) |
| 3. Journal of Building Engineering (Elsevier) | 13. Buildings (MDPI) |
| 4. Journal of Building and Construction Material (Elsevier) | 14. Revista de la Construcción |
| 5. Silicon (Springer Nature) | 15. Journal of Engineering and Applied Science (Springer Nature) |
| 6. Arabian Journal for Science and Engineering (Springer Nature) | 16. Journal of The Institution of Engineers (India): Series A (Springer Nature) |
| 7. Material Research Express (IOP Publishing) | 17. Journal of Structural Integrity and Maintenance (Taylor & Francis) |
| 8. Materials (MDPI) | 18. Multiscale and Multidisciplinary Modeling, Experiments and Design (Springer Nature) |
| 9. Journal of Hazardous Materials (Elsevier) | 19. International Journal of Concrete Structures and Materials (Springer Nature) |
| 10. Iranian journal of science and technology. Transactions of Civil Engineering (Springer Nature) | |

Managing Editor in the “Journal Engineering Research & Application” <https://jera.co.in/EditorialBoard.html>

ACADEMIC/RESEARCH RELATED IDS

Google Scholar: zg-OxgcAAAAJ

Scopus ID: [57198781464](https://www.scopus.com/authid/detail.url?authorID=57198781464)

Research ID: [AAX-4321-2020](https://www.researchgate.net/publication/3544321)

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