



Dr Zishan Raza Khan

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Scopus Author ID: [57191984855](#) |Web Of Science: IQS-7252-2023, |Research gate: [Zishan KHAN | Professor \(Associate\) | Integral University, Lucknow | Department of Civil Engineering | Research profile \(researchgate.net\)](#), |linked in: [linkedin.com/in/zishan-khan-1a5339b3](#))

PROFILE

- Certified ENV SP – Yr. 2024
- Certified Internal Auditor of Laboratory Quality Management System as per ISO/IEC 17025:2017
- PhD in Civil Engineering from Integral University, Lucknow – Yr. 2024
- M. Tech in Structural Engineering from ZHCET, AMU – Yr. 2008
- B. Tech in Civil Engineering from ZHCET, AMU – Yr. 2005
- Working as Associate Professor at Integral University, Lucknow

RESEARCH INTEREST:

- Quality control
- Sustainable construction materials
- Sustainable Urban Development with expertise in Storm water management

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Patent: 02
- Research Papers: 25
- Research Grant: 1.5 INR Lac
- Research Guidance: 31
- Book/Book Chapter: 03

PROFESSIONAL MEMBERSHIP:

- Life Member of The Institution of Engineers (India) (Membership No: M-1719933)
- E-Member of the American Concrete Institute (Membership No: 02033618)
- Member of Institute of Sustainable Infrastructure (ISI), USA

COURSE TAUGHT:

- Ready-mix Concrete Design and Quality Control
- Quality and Safety Management in Construction
- Construction Equipment Management
- Design of Steel Structures
- Structural Dynamics
- Theory of Elasticity and Plasticity

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- Deputy Director Human Resource Development Centre
- Deputy Director Centre for Career Guidance and Development
- Infrastructure and Learning Resources Coordinator of Integral University, (NAAC-Criteria-IV)

STUDENTS SUPERVISION

- "Optimization of steel waste at the construction site", Mohammad Danish, Master of Technology, 2023
- "A study on selection criteria of top down & bottom-up construction in metro rail projects", Arvind Singh, Master of Technology, 2023
- "Safety protocols of metro rail tunnel construction – effectiveness analysis and strategies", Sanjay Mishra, Master of Technology, 2023
- "Study on sap gel dozed self-curing concrete for RCC/PCC repair application", Abdul Rahman, Master of Technology, 2023
- "A study on the corrosion potential of lightweight steel fiber reinforced concrete under an extreme exposure condition", Mohd Shamsullah Khan, Master of Technology, 2023
- "A Study on Retrofitting Strategies for Removal of Soft Story Effect in a Reinforced Concrete Framed Structure.", Saumya Gupta, Master of Technology, 2023
- "Study on the impact of construction workers' productivity in construction works during pre and post covid-19", Sadique Zaman, Master of Technology, 2022
- "Location optimization of captive RMC plant in line project", Shamim Akhtar, Master of Technology, 2022
- "Rainwater tank capacity optimization", Syed Mohammad Fauzan Akhtar, Master of Technology, 2022
- "A Study on the effectiveness of (GRIHA) sustainability rating tool", Dinesh Kumar Gupta, Master of Technology, 2021
- "Acoustic performance evaluation of sugarcane bagasse using ambient sound meter and scanning electron microscopy", Aarushi Nigam, Master of Technology, 2021
- "A Study of the development of a Construction Safety Checklist for fall protection", Abhishek Shukla, Master of Technology, 2021
- "Assessment of factors affecting cost of quality in construction projects", Tushar Sarkari, Master of Technology, 2021
- "A study on establishment of financial feasibility parameter for prefabrication construction technology in the Uttar Pradesh region", Vishv Deep Gaurav, Master of Technology, 2021
- Mechanized laying process of interlocking concrete block pavement in Lucknow city.", Tahir Rashid, Master of Technology, 2020
- "A study on interlocking block pavement performance using modern construction techniques.", Shadab Ahmed, Master of Technology, 2020
- "Improvement of female labour workforce productivity using (Modern construction technology).", Mohd. Ahmad, Master of Technology, 2020

- "Contribution of spray plaster technology to achieve the project specification by cost and time.", Mohammad Faraz Ahmad, Master of Technology, 2020
- "Developing a sustainability rating tool for existing residential buildings in India.", Shafat Hussain Dar, Master of Technology, 2019
- "A comparative study on the suitability of different types of masonry blocks in the U.P. region based on cost optimization.", Rajiv Nigam, Master of Technology, 2019
- "Cost optimization of RMC plant in Lucknow region.", Ravi Kumar Saxena, Master of Technology, 2019
- "Cost evaluation of heavy construction machinery used in the real estate sector in Lucknow based on depreciation pattern", Shama Parveen, Master of Technology, 2018
- "Evaluation of OSHA Fall Protection Norms in Indian Scenario", Mohd Abu Zaid, Master of Technology, 2018
- "Assessment of ready-mix concrete delivery pattern in Lucknow based on cost and delivery time", Sohail Afzal, Master of Technology, 2018
- "Comparative analysis of interlocking concrete blocks with fly ash bricks in Uttar Pradesh", Mohd Hamid Hashmi, Master of Technology, 2018
- "A study on the strength properties of concrete using Polyacrylamide gel as an internal curing agent", Syed Fareed Akhter Zaidi, Master of Technology, 2018
- "A comparative study on carbon fibre bar and steel bar in axially loaded reinforced concrete column", Hanumant Sharan Singh, Master of Technology, 2018
- "Study on Effectiveness of Information Technology Tools in the Construction Industry", Abdul Ahad, Master of Technology, 2017
- "Comparison and Evaluation of Compressive Strength of Steel, Polypropylene and Coir Fiber", Abdul Waheed Khan, Master of Technology, 2017
- "Performance of carbon fibre as lateral ties in short axially loaded concrete columns", Faheemuz Zafar, Master of Technology, 2016
- "Study on Block shear capacity of bolted connections in rolled steel sections with staggered bolting", Yashi Dwivedi, Master of Technology, 2016

PUBLISHED/GRANT PATENTS

- Zishan Raza Khan & Syed Aqeel Ahmad. **Water Dust Separator for Clog Resistant Water Transmissible Pavements**. Patent (India) Granted: Number- 534707
- Dr Zishan Raza Khan, Dr Syed Aqeel Ahmad, Iffat Zareen Ahmad & Vikash Singh. **A System for Treatment of Stormwater**. Patent (India) Published: Application Number- 202411035522

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- **Khan, Z. R.**, Ahmad, S. A., & Singh, V. (2024). Water Transmissible Pavement: A physics of Granular Sub-base Permeability through Road Dust Analysis using Machine Learning. *Indian Journal of Pure & Applied Physics*, 62, 274-284. DOI:10.56042/ijpap.v62i4.7768
- Hasan, I., Srivastava, A., **Khan, Z. R.**, & Rizvi, S. A. M. (2023, April). A Novel Fuzzy Inference-Based Decision Support System for Crop Water Optimization. *Operations Research Forum*, 4, 38, DOI:10.1007/s43069-023-00199-3
- Equbal, A., Banerjee, R., **Khan, Z. R.**, & Dixit, R. B. (2017). Construction disputes in construction work sites and their probable solutions. *International Journal of Civil Engineering and Technology*, 8(3), 74-81.
- Khan, M. A., Deep, S., Asim, M., & **Khan, Z. R.** (2017). Quantization of risks involved in supply of ready mix concrete in construction industry in Indian scenario. *International Journal of Civil Engineering and*

Technology, 8(3), 175-184.

- Huda, S., Ahmad, A., & Khan, Z. R. (2017). An Experimental Study of Fly Ash Concrete with Steel Fiber Hooked Ends to Obtain Strength of M30 Grade. *International Journal of Civil Engineering and Technology (IJCIET)*, 8(3), 282-291.
- Zafar, F., Khan, Z. R., & Ahmad, S. (2016). Performance of carbon fiber as lateral ties in short axially loaded concrete columns. *Technology*, 7(3), 122-128.

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- **Zishan Raza Khan**, Syed Aqeel Ahmad, Vikash Singh, "Auto-Healing of Concrete Using Bacteria: A Sustainable Solution". International Scientific and Practical Conference "Status and Development Prospects of Fundamental and Applied Microbiology: The Viewpoint of Young Scientists"-2024
- Abdul Ahad, **Zishan Raza Khan**, Mohammad Kashif Khan, "Application of information technology in construction management". Advancement in Computer Engineering and Information Technology-2016
- Abdul Ahad, **Zishan Raza Khan**, Syed Aqeel Ahmad, Mohammad Tayyab, "Role of IT in parking management". Advancement in Computer Engineering and Information Technology-2016
- Abdul Ahad, **Zishan Raza Khan**, Mohammad Kashif Khan, "Soil Stabilization by Waste Sugarcane Fiber". National Conference on Advances in Geotechnical Engineering- 2016
- Faheemuz Zafar, Abdul Ahad, **Zishan Raza Khan**, "Application of Carbon Fiber Reinforced Polymer (CFRP) to the Highway Infrastructure: Overview". National Conference on Advances in Geotechnical Engineering- 2016

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- **Khan, Z. R.**, & Ahmad, S. A. (2023). Clog-Resistant Permeable Pavement: Methods of Performance Measurement. *Current World Environment*, 18(2),524-534. Doi:<https://dx.doi.org/10.12944/CWE.18.2.09>
- Anayatullah Bhat, **Zishan Raza Khan**, "Behavior of Autoclaved Aerated Concrete Blocks using Alkali-Resistant Glass Fibre as Additive". *International Journal of Recent Technology and Engineering (IJRTE)* ISSN: 2277-3878, 8(6), 2020, pp.3508-3513.
- Shafat Hussain Dar, **Zishan Raza Khan**, "Developing a Sustainability Rating Tool for Existing Residential Buildings of India". *Journal of Emerging Technologies and Innovative Research*, 6(4), 2019, pp.713-726.
- Ravi Kumar Saxena, **Zishan Raza Khan**, "Cost Optimization of RMC Plant in Lucknow Region". *Journal of Emerging Technologies and Innovative Research* ISSN-2349-5162, 6(5), 2019, pp.279-285.
- Rajiv Nigam, **Zishan Raza Khan**, "A study to find cost effective and sustainable masonry block for Uttar Pradesh region in India". *Journal of Emerging Technologies and Innovative Research* ISSN-2349-5162, 6(4), 2019, pp.410-425.
- Ravi Kumar Saxena, **Zishan Raza Khan**, "Cost Optimization of RMC Plant in Lucknow Region: A Review". *Journal of Emerging Technologies and Innovative Research* ISSN-2349-5162, 6(3), 2019, pp.268-273.
- Shafat Hussain Dar, **Zishan Raza Khan**, "Developing a Sustainability Rating Tool for Existing Residential Buildings of India-A Review". *Journal of Emerging Technologies and Innovative Research*, 5(12), 2018, pp.279-284.

- **Zishan Raza Khan**, Rajiv Nigam, “Suitability of different types of masonry blocks with in Uttar Pradesh region in India: a review”. Journal of Emerging Technologies and Innovative Research ISSN-2349-5162, 5(12), 2018, pp.772-776.
- Mohd Adil Khan, **Zishan Raza Khan**, “A review paper on formulation of block shear failure in staggered bolt connection under tension”. Journal of Emerging Technologies and Innovative Research ISSN-2349-5162, 5(11), 2018, pp.279-283.
- Shama Parveen, **Zishan Raza Khan**, “A review paper on cost evaluation of heavy construction machinery used in real estate sector based in Lucknow using depreciation method”. International Journal of Advanced Scientific Research and Management, 3(6), 2018, pp.1-3.
- Mohd Abu Zaid, **Zishan Raza Khan**, “A review paper on evaluation of OSHA fall protection norms in Indian scenario”. International Journal of Advanced Scientific Research and Management, 3(6), 2018, pp.201-203.
- Hanumant Sharan Singh, **Zishan Raza Khan**, Faheemuz Zafar, “A comparative study on carbon fiber bar and steel bar in axially loaded reinforced concrete column”. International Journal of Scientific Research and Reviews, 7(3), 2018, pp.1568-1578.
- Faheemuz Zafar, **Zishan Raza Khan**, Sabih Ahmad, “Performance of carbon fiber as lateral ties in short axially loaded concrete columns”. International Journal of Civil Engineering and Technology, 7(2), 2016, pp.122-128..
- Mohd Amir Khan, Shumank Deep, Mohd Asim, **Zishan Raza Khan**, “Quantization of risk involved in supply of construction industry in Indian scenario”. International Journal of Civil Engineering and Technology, 8(3), 2017, pp.175-184.
- Abdul Ahad, **Zishan Raza Khan**, Shumank Deep Srivastava, “Application of IT in supply of construction material procurement”. International Journal for Science and Advance Research in Technology, 3(7), 2017, pp.638-642.
- Abdul Waheed Khan, **Zishan Raza Khan**, “Comparison and evaluation of compressive strength of steel fibers, polypropylene fibers and coir fibers modified concrete”. International Journal for Scientific Research & Development, 5(3), 2017, pp.1693-1696.
- Abdul Ahad, **Zishan Raza Khan**, Syed Aqeel Ahmad, “Intelligent parking system”. World Journal of Engineering and Technology, 4, 2016, pp.160-167.

BOOK EDITED/ AUTHORED

- Syed Aqeel Ahmad, & Zishan Raza Khan. (2021). Sustainable Infrastructure Developemnt. Aargon Press, New Delhi. ISBN:978-93-94070-37-0
- Mohd Sadat, & Zishan Raza Khan. (2021). Modern Construction. Aargon Press, New Delhi. ISBN:978-93-94070-29-5

BOOK CHAPTERS

- Nigam, A., & Khan, Z.R. (2021). Cost-Effective Acoustic Material: The Sugarcane Bagasse (Modern Construction, pp.12-42). Aargon Press, New Delhi.
- Dinesh, K.G., & Khan, Z.R. (2021). Role of GRIHA in Sustainable Rating (Modern Construction, pp.144-169). Aargon Press, New Delhi.
- Nigam, R., & Khan, Z.R. (2021). Sustainable Masonry Block for Building Construction in Northern India (Sustainable Infrastructure Development, pp.94-127). Aargon Press, New Delhi.

- Ahmad, M., & Khan, Z.R. (2021). Gender Unbiased Sustainable Labour Workforce Management in Construction Industry (Sustainable Infrastructure Development, pp.127-143). Aargon Press, New Delhi.
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