Mohd Kashif Khan
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PROFILE

- Associate Professor, Department of Civil Engineering
- Specialization: Structural Engineering.
- 18 years of experience in academics, construction, consultancy, and research.

Other Achievements:

- Advisor/member (Staff Selection Committee (SSC), Govt. of India) Interview Board of the Recruitment of Junior Engineer (Civil) Examination, 2014.
- Member interview board of UPPCL for Recruitment of Assistant Engineer, October 2015
- Member interview board of Uttar Pradesh Power Cooperation (UPPCL)for Recruitment of Junior Engineer, November 2015
- Member interview board state Industrial Tanning Institute (I.T.I). for recruitment of the faculty Govt of U.P. June 2016

RESEARCH INTEREST:

- Advanced and sustainable construction materials
- Engineered Cementitious Composites (ECC) and high-performance concrete
- Structural strengthening and retrofitting techniques
- Sustainable alternatives in concrete, including recycled and waste materials
- Mechanical behavior of concrete under various loadings and environments

SUMMARY OF RESEARCH ACCOMPLISHMENT:

♦ Engineered Cementitious Composites (ECC)

- Conducted analytical studies on ECC composite beams, examining structural behavior and benefits in enhancing load-bearing capacities and crack control.

- Reviewed ECC's behavior on reinforced concrete beams using basalt rebar, contributing to understanding advanced composite materials in structural applications.

♦ · Concrete Strengthening Techniques

- Explored comparative strength improvement methods for short columns through various jacketing materials.
- Investigated ferrocement jacketing for strengthening reinforced concrete (RC) columns under axial loads, advancing knowledge in retrofitting techniques.

♦ · Sustainable Concrete Materials

- Studied the impact of partial replacements in concrete, including rubber dust, tire chips, bone powder, and red mud, promoting sustainable alternatives for enhanced mechanical properties.
- Researched fly-ash cement bricks and hybrid fiber reinforcement (basalt, polypropylene) to improve eco-friendly and durable construction materials.

♦ · Delay Factors in Construction Projects

- Analyzed causes of project delays in Indian construction, proposing lean principles to enhance project efficiency and minimize delays.

♦ · Concrete Modulus and Seismic Design

- Assessed RC beam elasticity under flexural loading through ANSYS simulations.
- Developed seismic design procedures based on direct displacement approaches for reinforced concrete buildings.

♦ · Soil Improvement and Foundation Studies

- Conducted experimental studies on soil stabilization using jute fibers and bone ash, enhancing engineering properties of soil for construction.
- Investigated isolated footings on loamy soils under monotonic loading, providing insights into foundation design for variable soil conditions.

PROFESSIONAL MEMBERSHIP:

- Member Institute of Engineers, India (Member No. M-1720214)
- Member International Association of Engineers (Member No. 191602)

COURSE TAUGHT:

- Structure Analysis-1
- Basic Surveying
- Advanced Surveying
- Steel Structures
- Advanced Structure Analysis
- Advanced Steel Structures

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- Member University Event Management Committee
- Member University Environmental, Green and Energy Audit Committee
- Member University HRDC CALEM Team.
- Member Proctor Board
- Member University NAAC Criteria-IV Sub-committee for 3rd Cycle
- Member Faculty Board
- B.Tech (U.G) Program Coordinator
- Member Board of Studies
- Member Departmental Quality Assurance Cell
- Class Coordinator
- Incharge NAAC Criteria-II (Department level)
- Departmental International Student Coordinator
- Coordinator Departmental Industrial Collaboration (L&T EduTech)

STUDENTS SUPERVISION

- Dissertation guided to M. Tech Student 16
- Project guided to B. Tech student 14

PUBLISHED/GRANT PATENTS

- Development of Strengthening Techniques For Reinforced Concrete Columns With FRP
- Development of Geopolymer Concrete for Special Structure in Aggressive Environments

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- Reddy, Vishnu Vardhan, and Mohd Kashif Khan. "Experimental Investigations on fiber Reinforced Concrete For Sustainable Construction." Rock and Soil Mechanics 45.1-2024.

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- Abdul Ahad, Zishan Raza Khan, M. Kashif Khan, “Application of Information Technology in Construction Management”, in International Conference on Advancement in Computer Engineering & Information Technology-(ACEIT-16), held at Integral University, Lucknow on 12th March 2016 organized by Department of Computer Science and Engineering.
- Syed Mohd. Ashraf Husain, Mohd. Kashif Khan and Sabih Ahmad, “Effect of Bone Ash on Low Shear Strength Soil”, in National Conference on Advances in Geotechnical Engineering (AGE-2016) organized by Department of Civil Engineering, ZHCET, A.M.U, Aligarh in association with Indian Geotechnical Society (Delhi Chapter) on 08th- 09th April 2016. (ISBN: 978-93-85777-60-8)
- Mohd. Kashif Khan and Imran Alam, “Comparative Study of Modulus of Elasticity of RC Beam under Flexural Loading using ANSYS”, in National Conference on Advances in Geotechnical Engineering (AGE-2016), organized by Department of Civil Engineering, Zakir Husain College of Engineering & Technology (ZHCET) Aligarh in association with Indian Geotechnical Society, Delhi Chapter, Delhi; pp. 92-96.

- Abdul Ahad, Zishan Raza Khan, M. Kashif Khan, "Soil Stabilization by Waste Sugarcane Fiber" National Conference on Advances in Geotechnical Engineering held at Aligarh, India between 8th and 9thApril 2016.
- Syed Mohd. Ashraf Husain, Mohd. Kashif Khan, "Enhance the Engineering Properties of Soil by using Lime and Fly ash for the Construction of Building Foundation", in National Conference on Advances in Geotechnical Engineering (AGE-2016) organized by Department of Civil Engineering, ZHCET, A.M.U, Aligarh in association with Indian Geotechnical Society (Delhi Chapter) on April 2016. (ISBN: 978-93-85777-60-8).

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- Kirti Sharma, Mohd. Kashif Khan"A Review Paper on an analytical study on ECC composite beam'International Research Journal of Engineering and Technology, 2021
- Mohd Kashif Khan and Kirti Sharma "An Analytical Study on ECC Composite beam" IAEME PUBLICATION Volume 11 12-2020
- Pathak, A. and Khan, Mohd Kashif., ' A review on behavior of ECC layer on reinforced concrete beam with basalt rebar', Journal of Emerging Technology and Innovation Research, 2018, volume 5.
- Ahmad, F.K. and Khan, Mohd Kashif. 'A review on comparative study on strength of short column by using different jacketing material', Journal of Emerging Technology and Innovation Research, 2018, volume 5, pp. 389-392.
- Sayeed, A., and Khan, Mohd Kashif, 'A study on mechanical properties of rubber aggregate concrete – A review', International journal of emerging technologies in engineering research, 2018, volume 6, pp. 13-17
- Deep, S., Asim M., Khan.Mohd Kashif, 'Review of various delay causing factors and their resolution by application of lean principles in India', Baltic Journal of Real Estate Economics and Construction Management, 2017, Volume 5, pp. 101-117.
- Khan, Mohd Kashif ., Mishra .A., ' Effect on strength of concrete by partial replacement of fine aggregate by rubber dust and coarse aggregate by tyre chips', International Journal of Scientific Research, 2017, volume 6 , pp. 209-211.
- Rasool, T., Khan, Mohd Kashif and Izhar, T, 'Strengthening of RC short square columns subjected to concentric axial loading by ferrocement jacket', International Research Journal of Engineering And Technology, 2017, volume 4, pp. 3490-3495.
- Rasool, T., Khan, Mohd Kashif and Izhar. T, 'A review on strengthening of RCC square columns with reinforced concrete jacketing', International Research Journal of Engineering And Technology, 2017, volume 3, pp. 1797-1799
- Ahmad, A., Ahmad S.A., Khan, Mohd. Kashif., Himanshu, 'Study of concrete properties using bone powder by partial replacement of cement', Journal Of Ceramics And Concrete Sciences, 2017, volume 2, pp. 1-4
- Rasool, T., Khan, Mohd Kashif and Izhar. T,' A review on strengthening of RC short columns with ferrocement jackets', International Journal of Science And Advance Research In Technology', 2017, volume 2, pp. 358-360.
- Prakesh, S., Khan Mohd Kashif and Alam. I., 'Study of modulus of elasticity of RC beam under flexural loading using ANSYS', International Journal of Scientific & Engineering Research, 2016, volume 7, pp.1335-1344

- Izhar,T., Shukla,S., Khan, Mohd Kashif and Mumtaz, N, 'Introduction to direct displacement based design procedure for seismic designing of reinforced concrete buildings' , International Journal For Scientific Research & Development, 2016, volume 5, pp. 1518-1522.
- Yadav, Sankadi,, Dixit, R. B., Banerjee, R. and Khan, Mohd. Kashif. 'Characteristic strength study of fly-ash cement Bricks by using ironite' International Journal Of Science And Advance Research In Technology,2016,volume 2, pp. 326-330.
- Imran, M., Alam, I., and Khan, Mohd Kashif, 'An experimental investigation of properties of cement concrete on addition of different percentage of glass fibre and SBR-latex', International Journal Of Emerging Technologies In Engineering Research (Ijeter),2016,volume 4, pp. 105-109.
- Siddiqui, Mohammad Hashim., Md.Tabsheer Ahmad, Mohd Kashif Khan, 'Effect of basalt, polypropylene and hybrid fibres on mechanical properties of concrete', International Journal Of Science And Advance Research In Technology,2016, volume 2, pp.82-86.
- Singh, Er. Rajendra. , Dixit R.B., Khan, M. Kashif, Manoj Kumar, and Adwitiya Sharma, 'Experimental study on compressive strength of plain concrete partially replacing fine aggregate and coarse aggregate by ironite and ceramic waste', International Journal of Science and Advance Research In Technology, 2016, volume 2, pp. 687-690
- Sharma, Adwitiya. , Raj Bandhu Dixit, Khan, Mohd. Kashif and Manoj Kumar, 'Experimental study of plain concrete M25 grade with partial replacement of cement with sugarcane Bagasse ash and fine aggregate by stone dust under Compression', International Journal of Science and Advance Research In Technology, 2016, volume 2, pp.335-338.
- Ahmad, Anwar. , Dr. Syed Aqeel Ahmad,, Mohd. Kashif Khan Devendra Yadav, 'Study the method of controlling bleeding in concrete using aluminum powder', International Journal of Emerging Technologies In Engineering Research (IJETER), 2016, volume 4, pp. 178-181.
- Rizvi, M. U., Singh, V. P., Khan, Mohd. Kashif , Manoj Kumar, 'Study of high volume fly ash concrete with Recycled aggregates', International Journal Of Science And Advance Research In Technology,2016,volume 2, pp. 339-343.
- Siddiqui, Bilal. , Imran Alam, Mohd. Kashif Khan, 'Study on strength of concrete with partial Replacement of cement with metakaolin and Red mud', International Journal Of Science And Advance Research In Technology,2016,volume 2, pp. 483-486.
- Ahmad, A., Ahmad, S.A., Khan, Mohd. Kashif , Yadav, D., 'Study the effects of aluminum powder to controlling the bleeding capacity of concrete', International Journal of Science And Advance Research In Technology ,2016,volume 2, pp. 399-402.
- Habeeb,M., I.Tabish, Ali, N., Ahmad, S.A., Khan, Mohd Kashif, 'Experimental study on compressive strength of concrete with the variation of cement content using Super plasticizer (WRs)', International Journal Of Science And Advance Research In Technology,2016, volume 2, pp. 426-429
- Khushaboo, Alam, I., Khan,Mohd Kashif , 'Study of elastic property of RC beam under static load', International Journal of Science And Advance Research In Technology, 2016,volume 2, pp. 5.3-509.
- Anwar,W., Bakr,A., Husain, S.M., Khan,Mohd Kashif and Ahmad, S.'Structural behaviour of low shear strength soil stabilised by bone ash and sodium chloride', IRSART, 2016, volume 2, pp. 304-307.
- Zaidi,A., Khan, Mohd Kashif, Khan, Z. R. and S.M Ashraf, 'Enhancement in engineering properties of soil reinforced with jute fiber', International Journal of Emerging Technologies In Engineering Research,2016,volume 4,pp. 96 to 98.

- Lone, Z A., R Manzoor, Khan, Mohd Kashif, 'Experimental study of various shaped isolated footings under monotonic loading on loamy soil', International Journal Of Science And Advance Research In Technology,2016,volume 2, pp. 342 to 346.
- Khan, Mohd Kashif. and Singh, B.P. 'Used of recycled tyre/rubber as course aggregate and stone dust as fine aggregate in cement concrete', IOSR Journal Of Mechanical And Civil Engineering, 2015,volume 12, pp. 101 to 107.

BOOK EDITED/ AUTHORED

- Construction Technology, JEC Publication (Author)

BOOK CHAPTERS

- Ahmad, K. F., Khan, M. K. (2021). Retrofitting of short column and its implications. In Recent advancement in building technology (pp. 72-86). New Delhi: Aargon Press. ISBN 9788195188475.
- Ali, I., & Khan, M. K. (2021). An analytical study of performance of retrofitting column. In Modern construction (pp. 72-96). New Delhi: Aargon Press. ISBN 9789394070295.
- Kumar., M., Khan, M. K. (2021). Behaviour of inclined tension piles and its structural effects. In Recent advancement in building technology(pp. 87-102). New Delhi: Aargon Press. ISBN 9788195188475.
- Shukla, S., Khan, M. K., & Izhar, T. (2021). Direct displacement-based design procedure for seismic design of reinforced concrete. In Performance based analysis & design of structures (pp. 40-53). Aargon Press. ISBN 9789394070455.
- Ali Khan, G., & Khan, M. K.(2021). Use of waste rubber tyres with steel fiber in concrete. In Performance based analysis & design of structures (pp. 159-177). Aargon Press. ISBN 9789394070455.
- Rafee, M., Khan, M K., & Husain, M. A. (2021). Experimental study of various shape isolated footing under monotonic loading on pond ash. In Performance based analysis & design of structures (pp. 178-199). Aargon Press. ISBN 9789394070455.
- Prakash, S., Khan, M. K., & Alam, I. (2021). Study of modulus of elasticity of RC beam under flexural loading using ANSYS 6. In Performance based analysis & design of structures (pp. 200-226). New Delhi: Aargon Press. ISBN 9789394070455.
- Khan, M. K.,Rasool, T., & Izhar, T. (2021). Retrofitting of reinforced concrete column E jacketing employing jacketing approach. In Recent advancement in building technology (pp. 40-53). New Delhi: Aargon Press. ISBN 9788195188475.
- Pathak, A., & Khan, M. K.,(2021). Flexural behaviour of engineering cementitious composite beam in modern building. In Recent advancement in building technology (pp. 54-71). New Delhi: Aargon Press. ISBN 9788195188475.