

**MOHAMMED SHAKEEBULLA KHAN**, Ph.D (Pursuing)  
Assistant Professor | Structural Engineering | Concrete Technology  
Life Member: ICI, ISTE, IAENG, ISDS  
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Palghar, Maharashtra

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## PROFESSIONAL EXPERIENCE

### 1. Assistant Professor, Civil Engineering Department

**St. John College of Engineering and Management (SJCEM), Palghar, Maharashtra**  
<https://www.sjcem.edu.in/> NAAC A+ Accredited, Autonomous Institute

June 2025 – Present

- Deliver advanced lectures in Quantity Surveying, Geotechnical Engineering, Water Resources, and Engineering Mechanics.
- Lead establishment and management of AICTE-funded IDEA Lab, guiding 50+ students in innovation and prototyping.
- Secured ₹50,000 seed grant as Co-Investigator for research on "Coastal Erosion Monitoring and Prediction Using Satellite Data and Machine Learning".
- Hold key committee memberships (SEDGs, R&D, IIC) and serve as NPTEL Coordinator and Final-Year Project Coordinator.

### 2. Assistant Professor, Civil Engineering Department

**Bharat Institute of Engineering and Technology, Hyderabad, Telangana** (<https://biet.ac.in/>)

Nov 2024 – Jan 2025

- Taught undergraduate and postgraduate courses, including Estimation & Costing, Structural Analysis, and Advanced RCC Design.
- Served as an external examiner and valuator for JNTUH university examinations.

### 3. Assistant Professor, Civil Engineering Department

**Zeal College of Engineering & Research, Pune, Maharashtra** (<https://zcoer.in/>)

Jan 2023 – Nov 2024

- Played a key role in departmental NBA and ISO 21001:2018 accreditation efforts.
- Coordinated and organized ISTE-approved Faculty Development Programs (FDPs).
- Served as NPTEL Coordinator, ICIU Coordinator, and Faculty Welfare Coordinator.

### 4. Assistant Professor, Civil Engineering Department

**Sampoorna Institute of Technology and Research, Bangalore, Karnataka**

(<https://www.sampoornainstitutions.org/>)

Aug 2015 – Jan 2023

- Instructed a wide range of UG subjects including Concrete Technology, Transportation Engineering and Geotechnical Engineering.
- Managed comprehensive examination duties as Valuator, External Examiner, and Deputy Superintendent for VTU.

## RESEARCH PROFILE

- **Research Interests:** Sustainable Concrete Technologies, Nano-materials in Cementitious Composites (Graphene Oxide), Self-Compacting Concrete, and Structural Analysis & Design.
- **Profiles:** ORCID: [[ORCID ID 0009-0007-3260-5257](https://orcid.org/0009-0007-3260-5257)] | VIDWAN ID: 603691|  
Google Scholar: [<https://scholar.google.com/citations?user=BkjRahkAAAAJ&hl=en>]

## RESEARCH PROJECTS & GRANTS

- Co-Investigator, "Coastal Erosion Monitoring and Prediction Using Satellite Data and Machine Learning". Funded by Aldel Education Trust under the Seed Money for Research Scheme. (Sanctioned: ₹50,000; Duration: Oct 2025 - Mar 2027).
- **Objective:** To develop a predictive model for coastal erosion using remote sensing and ML techniques.

## PUBLICATIONS

### JOURNAL PUBLICATIONS

#### International:

1. **Khan, M.S. et al.** (2024). "Utilization of Jhama brick dust as a sustainable alternative for fine aggregate in concrete, *International Journal of Science, Technology, Engineering and Mathematics*, Volume 4 Issue 4, December 2024 DOI: <https://doi.org/10.53378/ijstem.353132>

#### National:

1. **Khan, M.S. et al.** (2024). "An Experimental Analysis on Self Compacting Concrete with Different Grades." *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, 12(III), March 2024. DOI: [10.22214/ijraset.2024.59470](https://doi.org/10.22214/ijraset.2024.59470)
2. **Khan, Mohammed Shakeebulla et al.** (2024). "Optimizing Construction Efficiency with Mivan Formwork System." *International Journal of Creative Research Thoughts (IJCRT)*, 12(3), March 2024. Link: [IJCRT2403762](https://doi.org/10.22214/ijcrt.2024.2403762)
3. **Khan, Mohammed ShakeebUlla et al.** (2023). "Behaviour of Concrete by Partial Replacement of Fine Aggregate with Recycled Plastic Granules." *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538, 11(V), May 2023.
4. **Khan, Mohammed ShakeebUlla & Dr. Vijaya G. S.** (2017). "An Experimental Investigation on Strength And Chloride Ion Permeability Characteristics Of Concrete By Partial Replacement Of Sugar Cane Bagasse Ash With Fine Aggregate." *International Journal of Modern Trends in Engineering and Research (IJMTER)*, 04(9), September 2017. Scientific Journal Impact Factor: 4.364.

## CONFERENCE PRESENTATIONS

#### International:

1. **Khan, M.S.** (2025). Presented paper titled "Structural Optimization and Material Design for Monolithic 3D-Printed Affordable Housing" at the 3rd International Conference on Recent Advancements in Civil Engineering (RACE 2K25), OIST, Bhopal, Madhya Pradesh.
2. **Khan, M.S. et al.** (2024). "Advancements in Sustainable Concrete Technologies and the Role of Graphene Oxide in Self-Compacting Concrete" ,Paper ID: IEC38416,was presented during the

39th Indian Engineering Congress (The Institution of Engineers (India)), held at Hotel Novotel, Kolkata during 20 – 22 December 2024.

3. **Khan, Mohammed ShakeebUlla.** (2023). “A Comparative Strength and Water Permeability Experimental Investigation on Different Grades of Self-Compacting Concrete.” Presented at the *International Conference on Advances in Engineering and Technology (ICAET2023)*, K R Pete Krishna Government Engineering College, Karnataka, India. April 12-13, 2023. CV No: GECK/ICAET2023/CV025.

#### PEER REVIEW:

1. International Journal of Science, Technology, Engineering and Mathematics (IIARI), Invited to review a manuscript titled "KamAI: A Basic Filipino Sign Language Recognition Mobile Application using Deep Learning," providing critical assessment of its methodology and contribution to the field.

#### Educational Qualifications:

- **Doctor of Philosophy (Pursuing)** in Civil Engineering Sciences  
**Research Topic:** “To Study the Effect of Graphene Oxide on the Workability, Strength, and Durability Characteristics of Self-Compacting Concrete”  
**Research Centre:** Government S.K.S.J. Technology Institute, Bangalore  
**University:** Visvesvaraya Technological University, Belgaum, Karnataka  
**2021 – Present (Comprehensive Viva Completed)**
- **M. Tech. in Structural Engineering**  
**Institute/College:** Government S.K.S.J. Technology Institute, Bangalore  
**University:** Visvesvaraya Technological University, Belgaum, Karnataka  
July 2013 – August 2015  
**Percentage:** 73.625% (First Class with Distinction)
- **B.E. in Civil Engineering (General)**  
**Institute/College:** Ghousia College Of Engineering, Ramanagram  
**University:** Visvesvaraya Technological University, Belgaum, Karnataka  
July 2010 – June 2013  
**Percentage:** 79.942% (First Class with Distinction)
- **Diploma in Civil Engineering**  
**Institute/College:** Government Polytechnic, Channapatna  
**University/Board:** Board of Technical Examination, Bangalore, Karnataka  
May 2007 – June 2010, **Percentage:** 86.80% (First Class with Distinction)
- **10th Standard / S.S.L.C**  
**School:** Farah English High School, Channapatna  
**University/Board:** Karnataka Secondary Education Examination Board, Bangalore  
April 2007 | **Percentage:** 78.24%

#### CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- **Seminar Participation:** “Shaping the Future of Engineering with Artificial Intelligence”, GTU-ITR, Nov 2025.
- **Short Term Course:** “Climate Resilient Pathways for Sustainable Development” **NITTTR Chandigarh (ICT-78)** | Venue: St. John College of Engineering & Management, Palghar | 10–14 Nov 2025.

- Role of AI & Robotics in Civil Engineering 2025 | One Day National Faculty **Workshop**, Ghousia College of Engineering | Sep 2025
- **AICTE-ATATL FDP**: “Emerging Trends and Innovations in Interior Design” School of Design, Sri Satya Sai University of Technology & Medical Sciences, 15–20 Sept 2025
- **AICTE-ATATL FDP** on Advanced Engineering Materials towards Sustainable Development | Anand International College of Engineering | Aug 2025
- Foundation & Advanced Course on OBE Integration, Pedagogy, and Academic Systems | St. John College of Engineering and Management | Aug 2025
- Remote Sensing Data Analytics for Crop Production Forecasting | Grade: A+ | Indian Institute of Remote Sensing (**IIRS-ISRO**) | Jul 2025
- Principles of Construction Management (**NPTEL Online Certification**) | Jul-Sep 2024
- Diploma in **Architectural CAD** Drafting & Design | Mar 2012

### **PROFESSIONAL MEMBERSHIPS**

- American Society of Civil Engineers (ASCE) | Affiliate Member (ID: 12458121) | 2024-Present
- The Institution of Engineers (India) | Associate Member (AM1992085) | 2023-Present
- Indian Concrete Institute (ICI) | Life Member (14627), Pune Centre | 2024-Present
- Indian Society for Technical Education (ISTE) | Life Member (138080) | 2024-Present
- International Association of Engineers (IAENG) | Member (344491) | 2024-Present
- National Institute for Technical Training & Skill Development (NITTSD) | Member (97368) | 2024-Present

### **TECHNICAL PROFICIENCIES**

- Structural Analysis & Design: ETABS, STAAD.Pro, SAP2000, SAFE
- CAD & Drafting: AutoCAD (2D & 3D)
- Programming & Data Analysis: OriginPro, MS Office Suite (Advanced Excel)
- Research Tools: Remote Sensing Data Analytics (IIRS-ISRO Certified)

### **RELEVANT KNOWLEDGE & COMPETENCIES**

- Architectural Engineering Principles: Architectural Drafting (AutoCAD), Building Materials Technology, Sustainable Building Design, Construction Management.
- Pedagogy & Accreditation: Outcome-Based Education (OBE) Implementation, NBA/NAAC Accreditation Processes, Curriculum Development.
- E-Learning & LMS: Proficiency in Learning Management Systems (LMS), NPTEL Coordination, Online Teaching Strategies, Student Engagement in Digital Classrooms.
- Multicultural Pedagogy: Experience in adapting teaching methodologies for diverse and multicultural student bodies."
- Languages: English (Professional Proficiency), Urdu (Mother tongue), Hindi (Native), Kannada (Native), Arabic (Basic).

## ACADEMIC PROFILE, WORKSHOPS, WEBINARS

### ACADEMIC PROFILE

#### ➤ Academic Project Profile:

- **M. Tech Project:** Conducted "An Experimental Investigation on Compressive Strength and Different Permeability Characteristics of Waste Plastic Fibre Reinforced Concrete."
- **Survey Projects:** Participated in extensive surveys for the New Tank Project, Old Tank Project, Water Supply Project, Highway Alignment, and Triangulation Survey at Ramanagram (February 2012).
- **B.E Project:** Executed a detailed estimation and disposal project on "Solid Waste Management of Ramanagram City."
- **Diploma Project:** Investigated "Solid Waste Management of Ramanagram City."
- **Academic Achievement:** Recognized as 'Semester Topper' in the July 2012 university examinations, awarded a Meritorious Certificate from Ghousia College of Engineering, Ramnagram, Karnataka.

### WORKSHOPS/FACULTY DEVELOPMENT PROGRAMS (FDP'S)

1. **Six Days Online Faculty Development Programme, AICTE-ATAL FDP Offline**  
"Emerging Trends and Innovations in Interior Design"  
*SCHOOL OF DESIGN, Sri Satya Sai University of Technology and Medical Science | 15/09/2025 to 20/09/2025*
2. **Six Days Online Faculty Development Programme, AICTE-ATAL FDP**  
"Advanced Engineering Materials towards Sustainable Development"  
*ANAND International College of Engineering, Jaipur | 25/08/2025 to 30/08/2025*
3. **Two Days Offline Faculty Development Programme**  
"Foundation and Advanced Course on OBE Integration, Pedagogy, and Academic Systems"  
*St. John College of Engineering and Management | 22nd and 23rd August 2025*
4. **One Week Online Faculty Development Programme**  
"Innovative Techniques in Ground Improvement & Soil Reinforcement for Sustainable Infrastructure" *Organized by the Department of Civil Engineering, SVERI's College of Engineering, Pandharpur.*  
11<sup>th</sup> to 16<sup>th</sup> November 2024.
5. **Three-Day Online Faculty Development Programme**  
"Recent Advancement in Civil Engineering – RACE 2024"  
*Organized by the Department of Civil Engineering, Zeal Polytechnic, Narhe, Pune.*  
August 28-30, 2024
6. **Three Days Online FDP**  
"Effective Teaching and Learning Using Active Learning Methods"  
*Organized by JSPM's Rajarshi Shahu College of Engineering, October 30 - November 1, 2023*
7. **Two Days FDP**  
"AI in Engineering"  
*Under ISTE Faculty Chapter, organized by AISSMS Polytechnic Pune, October 30-31, 2023*

8. **One Week Short Term Training Program (Online)**  
"Recent Trends in Civil Engineering"  
*Organized by Mauli Group of Institutions, College of Engineering & Technology, Shegaon*  
September 1-6, 2023
9. **AICTE Recognized FDP**  
"Innovation in Construction and Green Building Materials"  
*Conducted by NITTTR, Chandigarh, August 7-11, 2023, Certificate No: ICT-10111/23*
10. **Two Days FDP**  
"Rebar Steel Management & Execution at Construction Site by RebarMan Software"  
*Pravin Patil College of Diploma Engineering and Technology, Mira Bhayandar, Maharashtra*  
April 10-11, 2023
11. **Seven Days Training Programme**  
"E-Tabs Soft Skill Training Programme"  
*Organized by RajaRajeswari College Institution Innovation Council, Bengaluru,*  
September 1-7, 2022
12. **One Week Short Term Training Programme (ICT Mode)**  
"Fire Resistant Design of Structures"  
*Organized by IIT Madras, April 25-30, 2022*
13. **One Week Short Term Training Programme (ICT Mode)**  
"Modelling, Analysis and Design of Building with Software (E-Tabs)"  
*Organized by NITTTR, Kolkata*  
January 31 - February 4, 2022, **Certificate No: NITTTRK/ICT/2021-22/07975**
14. **One Week Short Term Training Programme (ICT Mode)**  
"How to Write Thesis and Research Paper"  
*Organized by NITTTR, Kolkata*  
January 17-21, 2022, **Certificate No: NITTTRK/ICT/2021-22/07222**
15. **One Week FDP (ICT Mode)**  
"Professional Ethics"  
*Organized by NITTTR, Chennai Extension Centre – Hyderabad*  
January 3-7, 2022, **Certificate No: 2021/FDPOM-122/15**
16. **AICTE-VTU Joint Training Programme**  
"An Overview of Teaching Techniques in Scientific Foundations of Health"  
*Organized by VTU - Human Resource Development Cell, Bengaluru*  
December 20-24, 2021, **Certificate No: AICTE-VTU/CPGSM/2021-22/PRG-03/169**
17. **Three Days FDP**  
"Renewable Energy Resources"  
*Organized by Global Institute of Science & Technology, Haldia, West Bengal*  
December 22-24, 2021, **Ref. No: GIST/FDP/RER/2021/074**
18. **One Week Short Term Training Programme (ICT Mode)**  
"Laboratory Practice on Civil Engineering Materials – Concrete"  
*Organized by NITTTR, Kolkata*  
December 13-17, 2021, **Certificate No: NITTTRK/ICT/2021-22/0586**
19. **One Day E-workshop**  
"STAAD Pro"

*Organized by Greater Kolkata College of Engineering and Management*

November 18, 2020

**20. Online Technical Quiz**

"Structural Engineering"

*Organized by East West Institute of Technology, July 10-17, 2020*

**21. One Day FDP**

"Effective E-Resources Retrieval Strategies for Efficient Research"

*Ghousia College of Engineering, Ramnagram, Karnataka, February 9, 2019*

**22. AICTE Sponsored Two-Week FDP**

"Recent Application of Nano Materials and Composites"

*Ghousia College of Engineering, Ramnagram, Karnataka, November 9-22, 2017*

**WEBINARS/SEMINARS**

- 1. One Day International Online Seminar: "Shaping the Future of Engineering with Artificial Intelligence"**  
Organized by GTU-Institute of Technology and Research (GTU-ITR), Gujarat Technological University  
November 19, 2025 | Certificate No. GTU-ITR/2025/337
- 2. Webinar: "Scientific writing and publishing by springer nature"**  
*Organized by springer nature and VTU Consortium ,*  
19<sup>th</sup> February, 2025
- 3. Webinar: "PhD Thesis Writing"**  
*Organized by Research Graduate,*  
17th November, 2024
- 4. Webinar: "Infrastructure Enhancement in Civil Engineering using AI"**  
*Organized by the Department of Civil Engineering, Ghousia College of Engineering*  
September 14, 2024
- 5. IEI Technical Webinar: "Deep Ground Improvement over Soft Soil & Unstable Ground"**  
*The Institution of Engineers (India)*  
August 27, 2024
- 6. One Day Seminar: "MEP Works and Aspects of Durable Waterproofing for RCC Structures"**  
*Association Of Consulting Civil Engineers, Solapur, May 1, 2024 (Offline)*
- 7. IEI Technical Webinar: "Sustainable Production: Green Cement Initiative"**  
*West Bengal State Centre of The Institution of Engineers (India)*  
November 9, 2023
- 8. NPTEL Awareness Workshop:**  
*Indian Institute of Technology, Madras, October 28, 2017*
- 9. Training Programme: "Capacity Building Training on the Usage of Energy Conservation Building Code (ECBC)-2014"**  
*VTU, Belagavi, October 12, 2017*
- 10. ICT Mode Webinar: "Solar Energy Applications for Sustainable Future"**  
*NITTTR, Chennai December 30, 2021, Certificate No: 2021/WOM-34/20*

11. **Three-Day International Seminar (Online):** "Advances in Construction Engineering - ACE - 2021"  
*JSS Academy of Technical Education, Bengaluru, July 26-28, 2021*
12. **Webinar:** "Bridge Bearings"  
*Jnanavikas Institute Of Technology, August 4, 2020*
13. **Webinar:** "Apiculture in Terrace Garden"  
*Sampoorna International Institute of Agri. Science and Horticultural Technology*  
July 26, 2020
14. **Webinar:** "Impact of Unsustainable Agricultural Practices on Soil and Groundwater Quality"  
*Sampoorna International Institute of Agri. Science and Horticultural Technology*  
July 20, 2020
15. **Webinar:** "Soil and Water Conservation for Sustainable Agriculture"  
*Sampoorna International Institute of Agri. Science and Horticultural Technology*



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