



KUMARAGURU
COLLEGE OF TECHNOLOGY
Character is life

**CIVIL
ENGINEERING
ASSOCIATION**



BUILDERS EXPRESS

March – April 2025



ABOUT KCT:



Kumaraguru College of Technology is an autonomous, self-financing engineering college, affiliated to Anna University. It was started in 1984, with the mission of providing aspiring students of technical education, a challenging learning environment. Over the last three decades, several new programs have been introduced and the institution has emerged as a trusted destination for quality technical education and as a hub for research and innovation. The college is ISO certified and is accredited by NAAC. Several programs offered by KCT are accredited by NBA. In addition to a host of engineering and allied engineering courses, KCT has also gained recognition for its uniquely tailored management education programs.

KCT prides itself as an institution that is quick to adapt its learning delivery platform to rapidly evolving learning environments. This has resulted in creating a vibrant ambience on campus that engages students in a variety of ways.

Vision of Institution

The vision of the college is to become a technical university of International Standards through continuous improvement.

Mission of Institution

Kumaraguru College of Technology (KCT) is committed to providing quality Education and Training in Engineering and Technology to prepare students for life and work equipping them to contribute to the technological, economic and social development of India. The College pursues excellence in providing training to develop a sense of professional responsibility, social and cultural awareness and set students on the path to leadership.

Vision of Department

Department of Civil Engineering is striving to become as a world class Academic Centre for quality education and research in diverse areas of Civil Engineering, with a strong social commitment.

Missions of Department

1. Producing highly competent and technologically capable professionals and motivated young Academicians
2. Providing quality education in undergraduate and post graduate levels, with strong emphasis on professional ethics and social commitment.
3. Developing a scholastic environment for the state – of –art research, resulting in practical applications.
4. Undertaking professional consultancy services in diverse areas of Civil Engineering.

Message from the Head of the Department:

"March and April 2025 have been vibrant with impactful events, research breakthroughs, global conferences, and community outreach. These months truly reflect our department's vision of integrating academics, innovation, and societal development."

— Dr. Selvan V

PROGRAMS ORGANIZED:

1. Workshop on Non-Destructive Testing (NDT)

- **Date:** 04 March 2025
- **Venue:** Department of Civil Engineering
- **Organized by:** Dr. K. Ramadevi & Mr. K. Sathiyathan
- **Outcome:** UG students gained hands-on exposure to Rebound Hammer, UPV, and Cover Meter techniques.



2. Guest Lecture on Construction Safety

- **Date:** 04 March 2025
- **Organized by:** Dr. A. Vennila & Mr. A. Aswin Bharath
- **Outcome:** UG students understood legal frameworks and proactive safety practices.



3. Workshop on Drone Mapping

- **Date:** 05 March 2025
- **Organized by:** Department Association
- **Outcome:** Real-time UAV-based surveying and terrain model processing.



4. Training Session for TWAD Engineers – Fluid Mechanics

- **Date:** 11 March 2025
- **Organized by:** Dr. G. L. Sathyamoorthy & Mr. Prasanth
- **Outcome:** Enhanced knowledge in pump operations and fluid flow devices.



5. International Conference on AQMM 2025

- **Date:** 19–20 March 2025
- **Organized by:** Department of Civil Engineering
- **Chaired by:** Dr. A. Gandhimathi & Team
- **Outcome:** Global engagement on air quality research and policy integration.



6. Reinforcement Expo 2025




- **Date:** 24 March 2025
- **Organized by:** Dr. Manju & Team
- **Outcome:** UG students demonstrated detailing skills using real rebar components.



7. National Survey Day Awareness Program

- **Date:** 09 April 2025
- **Resource Persons:** Mr. V. Saravanan & Mr. N. Gopala Krishnan
- **Outcome:** Introduction to Total Station, LiDAR, and GNSS surveying for UG students.





Kumaraguru College of Technology, Coimbatore
Department of Civil Engineering
NATIONAL SURVEY DAY
Awareness Program


Date & Day: 09 April 2025,
Time: 02.30 PM - 04.30 PM
Venue: F-Block, KCT

Outcomes: The National Survey Day - Awareness Program will increase awareness and understanding of surveys among participants, promoting community engagement and informed decision-making.

<p>Resource Person - 1</p>  <p>Thiru.V.Saravanan Assistant Director, P.A. to Collector, District Survey Office, Coimbatore</p>	<p>Resource Person - 2</p>  <p>Thiru.N.Gopala Krishnan Manager Technical, District Survey Office, Coimbatore</p>
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Organizing Committee

Mr. J. Viswanath / Assistant Professor / CIVIL
Mr. A. Asewin Bharath / Assistant Professor / CIVIL
Dr. R. Prakasam / Assistant Professor / PHYSICS





8. Manak Mitra – BIS Awareness Campaign

- **Date:** 26 March 2025
- **Organized by:** Department Standards Club with BIS, Govt. of India
- **Outcome:** Awareness on quality standards among engineers and students.





INDUSTRIAL VISITS & FIELD EXPOSURE:

1. Sakthi Sugars Ltd., Erode

- Date: 17 April 2025
- Participants: I Year M.E. Environmental Engineering
- Coordinators: Dr. Nithyalakshmi & Dr. G. L. Sathyamoorthy
- Focus: Effluent treatment, pollution control, and compliance practices.



2. Expert Talk – Motivation in Environmental Engineering

- Date: 22 April 2025
- Speaker: Dr. E. Thinakaran
- Audience: PG Environmental Engineering
- Outcome: Insights into research trends and interdisciplinary innovations.





PUBLICATIONS (March–April 2025):

Scopus/SCI-indexed Highlights:

1. March 2025:

- *"Performance of Geopolymer Concrete with Flyash and Silica Fume"* – Mr. G. Karthikeyan
- *"Monitoring the Structural Health of Bridges using Nanosensors"* – Mr. Ajai Adarsan et al.
- *"Review on BIM Adoption in Indian Construction Sector"* – Ms. U. Sindhu Vaardini

2. April 2025:

- *"Photocatalytic Concrete for Urban Air Purification"* – Ms. Dathi Sathya et al.
- *"Augmented Reality in Construction Phase Management"* – Ms. Sindhu Vaardini & Mr. B. Mithun
- *"Cleaner Production in Tanning and Plastic Industry"* – Dr. Nithyalakshmi B & Team

Total Publications in March–April: 30+ across high-impact journals and international conference proceedings

CONFERENCE PRESENTATIONS (March–April 2025):

1. 20–22 March 2025 – ICC IDEA 2025 @ SRM IST

- Topics: Sustainable paver blocks, steel fiber concretes, e-waste concrete
- Faculty: Dr. Manju R & UG student teams

2. 02–05 April 2025 – ICAECA 2025

- Topics: NDVI classification, microplastic impact, FMEA in academics
- Faculty: Dr. Nithyalakshmi B, Ms. Iswarya C, Mr. Nishant S

CONSULTANCY SERVICES:

1. NDT Structural Audit – Ooty

- Date: 09 April 2025
- Consultants: Mr. P. Nandhakumar & Mr. K. R. P. Satheesh Kumar
- Scope: Structural safety check using Rebound Hammer and UPV



2. Environmental Consultancy – Kodiveri River

- Date: 09 June 2025
- Lead: Dr. A. Gandhimathi with TNPCB
- Outcome: Pollution source tracing and water quality improvement plan



FACULTY HIGHLIGHTS:

Guest Lecture on STAAD.Pro and Its Importance for Civil Engineers

- Date: 28 March 2025
- Speaker: *Dr. K. Ramadevi*
- Participants: UG & PG Students of Civil Engineering
- Venue: Department of Civil Engineering, Kumaraguru College of Technology
- Format: Live demonstration + Industry-integrated session

STUDENT ACHIEVEMENTS:

March 2025:

- *Project on “Nanosensors in Bridges”* – Published in JPTS
- *Model on “Self-healing Concrete”* – Presented at AQMM 2025 Expo

CHIEF EDITOR



Dr. Selvan V
Head of the Department
Department of Civil Engineering

FACULTY EDITOR



Mr. Aswin Bharath A
Assistant Professor
Department of Civil Engineering

STUDENT EDITOR



Ms. Selvabharathi M, III Year, B.E. Civil Engineering
Ms. Subhika C, II Year, M.E. Structural Engineering
Mr. Aswin V, II Year, M.E. Construction Management
Ms. Subhanithi Nehaa A, II Year, M.E. Environmental Engineering