



KUMARAGURU
COLLEGE OF TECHNOLOGY
Character is life

**CIVIL
ENGINEERING
ASSOCIATION**



BUILDERS EXPRESS

January – February 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:

"The first two months of 2025 were filled with enthusiasm, learning, and transformation. With a balanced focus on technical upskilling, industrial exposure, research productivity, and student engagement, our department continues to drive academic excellence. I thank the faculty, students, and staff for their proactive efforts in making this possible."

— Dr. Selvan V

PROGRAMS ORGANIZED:

1. 03 Jan 2025 — *AutoCAD 2D Workshop*

- A hands-on session aimed at UG students to master 2D CAD drafting. Over 80 students participated in practical building component exercises and explored interface tools under expert guidance.



2. 04 Jan 2025 — *Alumni Meet – Decade Celebration*

- A heartwarming reunion with alumni from 2015–2024. Panel discussions, career mentoring sessions, and campus tours created networking opportunities and strengthened alumni relations.



3. 09 Jan 2025 — *LS300 LiDAR Hands-on Training*

- Students explored advanced surveying with LS300 LiDAR, comparing its precision to traditional methods. Coordinated by Mr. J. Viswanath & Mr. A. Aswin Bharath.



4. 09 Jan 2025 — *Awareness Workshop on Engineering Survey*

- Live demonstrations of Total Station, Auto Level, and GPS gave UG students foundational insight into site measurement and layout techniques.



5. 24 Jan 2025 — *Urban Economic Resilience Workshop*

- Organized by Dr. G.L. Sathyamoorthy, this interactive workshop for M.E. students examined strategies for economic recovery in crisis-hit urban zones.



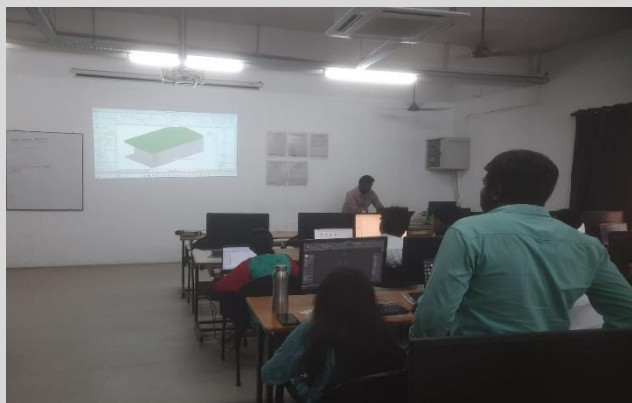
6. 25 Jan 2025 — *Build Expo (UG & PG Participation)*

- Held at PSG iTech, students displayed models on green construction and interacted with industry experts. The event boosted innovation and presentation skills.



7. 31 Jan 2025 — *BIM Workshop – PG-CAAD Lab*

- Postgraduates engaged with Revit and Navisworks tools, learning 4D simulation and clash detection through real-time construction projects.



8. 04–05 Feb 2025 — *Principles of Design Workshop*

- A two-day creativity booster for UG students on architectural and structural design, covering sketching, model making, and feedback-based iteration.



9. 15 Feb 2025 — *Field Visit – Resource Recovery Park*

- First-year UG students toured the KCT Green Campus to learn about zero-waste systems, composting, recycling, and environmental sustainability.





10. 26 Feb 2025 — *Field Visit – RCC Design Study*

- Third-year students witnessed live construction of beams, columns, and slabs, linking theoretical RCC concepts to real-world applications.



11. 27 Feb 2025 — *Project Expo – Air Quality Monitoring for Schools*

- School teams presented pollution sensors and climate posters. The event, organized by faculty and students, was a major outreach success.





PROGRAMS ATTENDED:

1. 06–10 Jan 2025 – *IEEE SPS Seasonal School*

- Dr. V. Selvan explored AI and signal processing frameworks for autonomous systems.



2. 23–24 Jan 2025 – *IEI Seminar on Climate Change*

- M.E. students attended talks on climate adaptation, case studies on flooding, and mitigation practices.



3. Jan–Feb 2025 – *NPTEL Course on Design Thinking*

- Mr. Nishant completed a 4-week program on creative problem-solving in engineering.

CONSULTANCY HIGHLIGHTS:

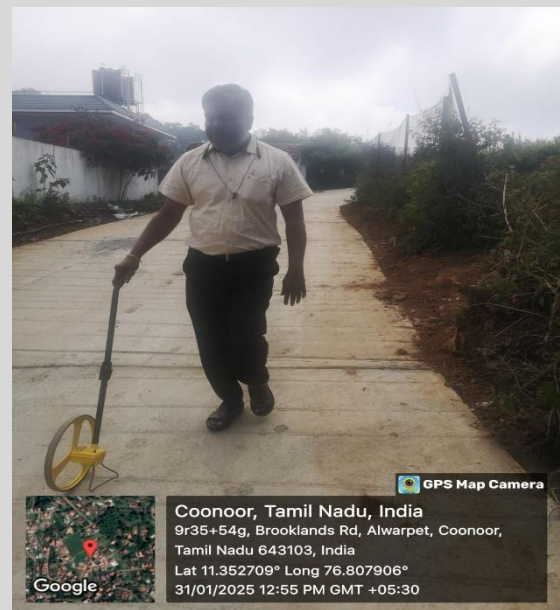
1. 25 Jan 2025 – *NDT Consultancy at Coimbatore*

- Dr. Ramadevi & Mr. P. Nandhakumar assessed an existing building using Rebound Hammer and UPV for structural stability.



2. 31 Jan 2025 – *Road Infrastructure Consultancy – Coonoor*

- Mrs. S. Anita & Mr. R. Karthikeyan surveyed slope conditions and pavement design in a hill terrain.



3. 07 Feb 2025 – *Campus Land Survey Consultancy*

- Mr. J. Viswanath and student team used Total Station and GPS to support KCT's campus development plan.



PUBLICATIONS AND RESEARCH EXCELLENCE:

1. "Study on the Influence of 3D, 4D, and 5D Steel Fibre Reinforced Concrete in Beam-Column Joints"

- Chandru R, Dr. Manju R
- International Journal of Research Publication and Reviews, Vol. 6(4), pp. 10362–10373

2. "Sustainable Alternatives in Concrete: A Comprehensive Review on the Replacement of Diatomaceous Earth and Electrical Wire Fibers"

- Anusuya M, Dr. Manju R
- International Journal of Research Publication and Reviews, Vol. 6(3), pp. 8192–8197

3. "Enhancing Concrete Sustainability: A Comprehensive Review of Steel Slag and Foundry Sand as Alternative Aggregate"

- Lohit M, Mr. K. R. P. Satheesh Kumar
- International Journal of Research Publication and Reviews, Vol. 6(2), pp. 4676–4682

4. "Floating Concrete: A Review of Materials, Design Principles, and Applications"

- Rajkumar S, Kamalesh M, Mr. G. Karthikeyan
- International Journal of Research Publication and Reviews, Vol. 6(5), pp. 244–251

5. "Performance of Geopolymer Concrete with Flyash and Silica Fume as Binders"

- Mr. G. Karthikeyan, N. Mathesh, S. A. Akash Vijai, C. S. Dharanish
- International Journal of Research Publication and Reviews, Vol. 6(3), pp. 6382–6387

6. "An Overview about Shape Memory Alloys (SMAs): Properties, Mechanisms, and Applications in Construction"

- Jeevitha S, Mr. G. Karthikeyan, K. Sri Pranap
- International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 14(5)

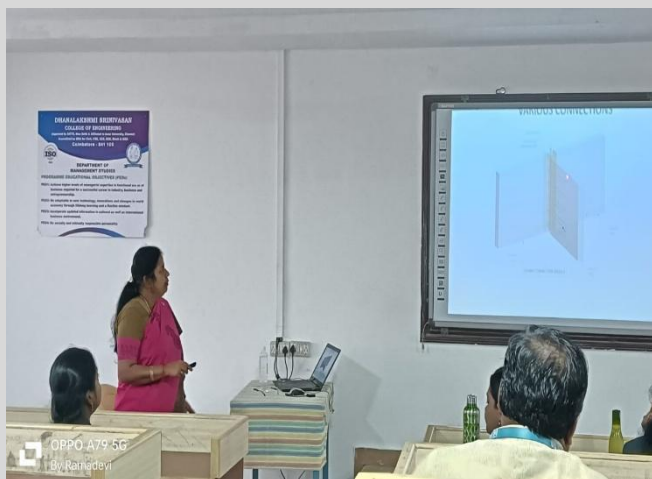
GUEST LECTURES & KNOWLEDGE SHARING:

1. 12 Feb 2025 – FDP Lecture on Smart Materials

- Dr. Ramadevi shared insights at Dhanalakshmi Srinivasan College on sustainable construction practices.

2. 24 Feb 2025 – Seminar on Indian Standards

- Dr. A. Vennila spoke to engineering students at Avinashilingam University on the relevance of BIS standards.





ACCREDITATION & ACHIEVEMENTS:

1. 22 Feb 2025 – NBA Compliance Audit (UG Civil)

- Successfully completed audit with strong documentation, curriculum mapping, and OBE practices. Positive feedback was received from the reviewers.



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