



KUMARAGURU
COLLEGE OF TECHNOLOGY
Character is Life

**CIVIL
ENGINEERING
ASSOCIATION**



BUILDERS EXPRESS

November – December 2024



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.



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Message from the Head of the Department:

"Our department continues to uphold its tradition of academic excellence and impactful research. With a focus on sustainability, digitalization, and community engagement, we are preparing our students to be future-ready engineers. Let us stride forward with purpose and innovation."

— Dr. Selvan V

Programs Attended

1. BEXEL Manager Training Program

- Participants: Mr. K.R.P. Satheesh Kumar, Mr. H.A. Nishaant, Mr. A. Aswin Bharath, Dr. P.A. Prabakaran, Ms. U. Sindhu Vaardini
- Dates: 25–27 November 2024
- Organizer: Infinity PMC Solutions Pvt Ltd, Chennai

2. Generative AI FDP

- Participant: Dr. R. Manju
- Dates: 9–15 December 2024
- Focus: Use of AI tools in academic research

BOOK PUBLICATIONS (Nov–Dec 2024):

1. Concrete Technology

- Authors: Mr. A. Aswin Bharath, Ms. U. Sindhu Vaardini
- Publisher: AQUA Publications, India
- ISBN: 978-9361751394

2. Sustainable Air: Strategies for Cleaner Atmosphere

- Author: Dr. N. Ramsundaram
- Publisher: Springer, Cham
- ISBN: 978-3-031-77057-9

BOOK CHAPTER PUBLICATIONS:

1. Artificial Intelligence and Speech Technology

- Chapter: *Performance Evaluation of ML Algorithms for Predicting Solar Radiation*
- Author: Dr. A. Geethakarathi
- Publisher: Springer Nature, Switzerland

2. Beyond Bricks and Mortar: Well-being for Women in Construction

- Chapter: *Work-Life Balance of Women in Construction*
- Authors: Ms. U. Sindhu Vaardini, Dr. V. Gayathri
- Publisher: Swaranjali Publications, UP, India

3. Renewable Energy Systems with Smart Grid Technologies

- Chapter: *Energy Storage Systems for Renewable Stabilization*
- Author: Dr. K. Ramadevi
- Publisher: RADemics Research Institute, India

RESEARCH PUBLICATIONS HIGHLIGHTS:

1. A Comparative Analysis of High-Performance Concrete

- Author: Dr. Gayathri Venkataraman
- Journal: Matéria (Rio J.), 2024

2. Factors Influencing the Adoption of 3D Printing in Indian Construction

- Authors: V. Aswin, U. Sindhu Vaardini
- Journal: IJFMR, 2025

3. Cleaner Production Techniques in Beverage Industry

- Author: Dr. Nithyalakshmi B
- Journal: IJRP&R, 2024

4. Enhancing Concrete with Foundry Sand and GGBS

- Authors: Dr. A. Vennila et al.
- Journal: IJRP&R, 2024

INDUSTRY COLLABORATION & CONSULTANCY:

1. Structural Audit – Ooty Region

- Date: 9 December 2024
- Consultants: Mr. K.R.P. Satheesh Kumar, Mr. P. Nandhakumar
- Outcome: Ensured structural safety and compliance through NDT techniques

2. Environmental Consultancy – Kodiveri River (TNPCB)

- Consultant: Dr. A. Gandhimathi
- Outcome: Water quality assessment and actionable insights for pollution mitigation

UPCOMING HIGHLIGHTS:

1. International Conference on Air Quality Monitoring & Modelling – AQMM 2025

- Dates: 19–20 March 2025

2. Reinforcement Expo 2025

- Date: 24 March 2025

3. Manak Mitra – BIS Awareness Program

- Date: 26 March 2025



CHIEF EDITOR



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Department of Civil Engineering

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Ms. Subhanithi Nehaa A, II Year, M.E. Environmental Engineering