



**KUMARAGURU**  
COLLEGE OF TECHNOLOGY  
Character is Life

**CIVIL  
ENGINEERING  
ASSOCIATION**



# BUILDERS EXPRESS

May – June 2023



## **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:**

*"The Department of Civil Engineering achieved several milestones during May and June 2023. Faculty and students contributed actively to academic, research, and industry engagements, enhancing the department's reputation in education and innovation."*

— Dr. Selvan V

## **Programs Organized:**

### **1. Advanced Industry Powered Faculty Immersion Program**

- Faculty In-Charge: Ms. U. Sindhu Vaardini
- Date: May 29 to June 3, 2023
- Summary: Conducted in collaboration with L&T, Chennai, this program focused on bridging industry-academia gaps by introducing faculty to advanced industrial practices.
- Outcomes: Faculty gained practical insights into industry standards, tools, and methodologies, which will enhance the integration of practical concepts into teaching.

### **2. Workshop on Innovation and Intellectual Property Rights**

- Faculty In-Charge: Mr. A. Aswin Bharath
- Date: June 12 to June 17, 2023
- Summary: Hosted by CSIR-IMMT, Bhubaneswar, the workshop provided an overview of intellectual property management and innovation strategies.
- Outcomes: Faculty gained knowledge on protecting intellectual property and fostering innovation, which they plan to incorporate into student projects.



## **Programs Attended**

### **1. FDP on Universal Human Values in Technical Education**

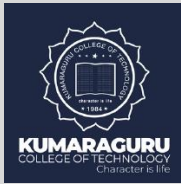
- Faculty: Dr. B. Nithyalakshmi and Mr. A. Aswin Bharath
- Date: June 12 to June 16, 2023
- Summary: Organized by AICTE, this FDP focused on integrating ethical and human values into technical education.
- Outcomes: Faculty enriched their teaching methodologies by incorporating value-based education.

### **2. Leadership Exposure Program**

- Faculty: Mr. P. Nandhakumar
- Date: June 23 to July 7, 2023
- Summary: Held at Kumaraguru College of Technology, this 14-day program aimed at developing leadership and decision-making skills among faculty.
- Outcomes: Enhanced leadership capabilities to mentor students and manage academic responsibilities effectively.

### **3. FDP on Scientific Research Publications and Data Acquisition**

- Faculty: Dr. G. L. Sathyamoorthy
- Date: June 12 to June 16, 2023
- Summary: Conducted by L&T EduTech, Mysuru, this FDP trained participants in advanced data acquisition techniques and strategies for publishing impactful research.
- Outcomes: Faculty developed expertise in using modern data acquisition tools for research projects.



## **Faculty Contributions:**

### **1. Publication Highlights**

- Faculty: Dr. G. L. Sathyamoorthy and Dr. K. Ramadevi
- Summary: Published groundbreaking research in journals indexed in Scopus and SCI, covering topics like sustainable construction materials and biodegradability testing.
- Outcomes: Improved the department's research profile and expanded opportunities for research collaborations.

### **2. Research Mentorship**

- Faculty: Dr. R. Manju
- Summary: Mentored student-led research on microbial concrete and flexural behavior of concrete beams.
- Outcomes: Students published research findings in reputed journals and gained hands-on research experience.

## **Student Achievements:**

### **Research Contributions:**

- Faculty Mentors: Dr. R. Manju and Dr. G.L. Sathyamoorthy
- Summary: Students contributed to advanced research projects on material sustainability and environmental impact assessment.
- Outcomes: Enhanced research skills and visibility in academia through joint publications.

## **Publications and Research Highlights:**

- **Faculty:** Dr. Ramadevi and Dr. Nithyalakshmi
- **Summary:** Published over 30 papers on topics such as nanotechnology applications in construction, sustainable concrete, and advanced environmental solutions.
- **Outcomes:** Boosted the department's research ranking and showcased leadership in civil engineering innovation.

## **Industry Collaborations and Consultancy:**

### **1. Collaboration with L&T EduTech**

- **Faculty:** Dr. V. Gayathri and Dr. K. Ramadevi
- **Summary:** Undertook consultancy projects for material testing and soil investigations.
- **Outcomes:** Strengthened industry relations and provided practical learning experiences for students through live projects.

### **2. Consultancy for TANTRANSCO**

- **Faculty:** Dr. V. Gayathri
- **Summary:** Provided soil investigation and testing services for proposed construction projects in Coimbatore.
- **Outcomes:** Enhanced the department's reputation for reliable consultancy services.

## **Did You Know?**

- The department developed an innovative **biodegradability testing method** and applied **nanotechnology** to entrap ammonia gas, solving real-world problems in waste management.
- Faculty members have been invited to national and international forums to share these innovations.





## **Upcoming Events:**

### **1. National Workshop on Advanced Geotechnical Practices**

- Date: July 2023
- Summary: This workshop will focus on the latest advancements in geotechnical engineering.
- Expected Outcomes: Enhance the technical skills of participants and foster collaborations with industry experts.

### **2. Industry Connect Program**

- Date: August 2023
- Summary: Collaborative program with Kumaraguru College of Technology to integrate industry challenges into academic curriculum.
- Expected Outcomes: Create industry-ready graduates with hands-on problem-solving experience.

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