



**KUMARAGURU**  
COLLEGE OF TECHNOLOGY  
Character is Life

**CIVIL  
ENGINEERING  
ASSOCIATION**



# BUILDERS EXPRESS

May – June 2022



## **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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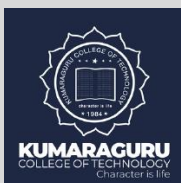
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## **Message from the Head of the Department:**

*"Innovation and excellence define our journey as a department. The months of May and June have been eventful, with impactful programs, research breakthroughs, and active industry collaborations. Let us continue to inspire and innovate!."*

— Dr. Selvan V

## **Programs Organized:**

### **1. Webinar on Green Construction Practices**

Date: 10th May 2022

Aimed at promoting sustainable practices, this webinar introduced students and faculty to green construction technologies. Industry experts discussed real-world implementations and their environmental benefits.

### **2. Technical Session on Smart Surveying Techniques**

Date: 25th May 2022

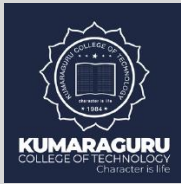
A technical session featuring live demonstrations of Total Station and UAV-based surveying, equipping students with practical knowledge of advanced equipment.

## **Programs Attended**

### **1. Faculty Development Program on Advanced Civil Engineering**

**Techniques:** Faculty members attended an FDP focused on emerging trends in geotechnical and structural engineering, hosted by a renowned technical institute.

### **2. Workshop on Digital Building Management:** PG students participated in a hands-on workshop on Building Information Modeling (BIM) tools, hosted by a leading construction software company.



## **Faculty Contributions:**

### **1. Research Engagement**

Dr. Ramadevi presented a paper on "Optimizing Concrete Durability Using Nanotechnology" at an international conference.

### **2. Industry Interface**

Dr. Geethakarathi collaborated with local municipalities on a project to improve soil stabilization methods for road construction.

## **Student Achievements:**

### **1. Internship at AECOM**

A group of final-year students completed a two-month internship, contributing to live projects in sustainable urban planning.

### **2. Best Poster Award**

Students from the department won the "Best Poster Presentation" at a national symposium for their work on eco-friendly construction materials.

## **Publications and Research Highlights:**

1. Dr. Gayathri published a paper in a reputed journal, exploring the use of recycled aggregates and alternative fine materials for sustainable concrete production.
2. Dr. Manju contributed a study on using artificial intelligence to optimize project management and material utilization.



### **Industry Collaborations and Consultancy:**

1. **Soil Investigation Project:** Conducted soil bearing capacity tests for a proposed industrial site in Coimbatore in collaboration with TANTRANSCO.
2. **Material Testing for Southern Railway:** Provided consultancy for concrete mix designs and material strength assessments for infrastructure projects.

### **Did You Know?**

- John Smeaton is widely regarded as the "Father of Civil Engineering" for his contributions to hydraulic structures.
- The Hoover Dam, completed in 1936, was the tallest dam in the world at the time, showcasing the marvels of civil engineering.

### **Upcoming Events:**

- **Workshop on Earthquake-Resistant Structures:** A practical session focusing on the design principles for seismic safety.
- **Site Visit to Metro Rail Project:** UG students will gain real-world insights into large-scale urban infrastructure projects.

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