

## **DEPARTMENT OF CIVIL ENGINEERING**

### **Best Practices Offered by the Department of Civil Engineering**

At KCT, our Civil Engineering Department is committed to providing effective teaching and learning experiences that equip students with the knowledge and skills necessary for their professional careers. We implement various best practices to enhance student engagement, practical exposure, and industry readiness.

#### **Lifelong Learning & Innovation**

We promote a culture of continuous improvement where both students and faculty are encouraged to stay updated on the latest engineering trends, technologies, and research. Faculty members actively create and share educational content through YouTube channels, benefiting students beyond the classroom.

#### **Innovative Teaching Methods**

To enhance student learning, we employ innovative teaching methods, including active learning techniques such as:

- **Industrial Visits & Report Submission** – Providing real-world exposure through site visits and requiring students to submit detailed reports to reinforce learning.
- **Project Expo & Competitions** – Encouraging students to showcase their creativity and problem-solving skills through projects and competitions.
- **Hands-on Learning & Experimentation** – Many courses integrate laboratory experiments and field activities, ensuring students gain practical knowledge.
- **Industry-Driven Courses** – Collaborations with industry experts allow students to learn the latest advancements and technologies relevant to the field.

#### **Integration of Service-Learning**

We embed service-learning into our curriculum, allowing students to apply theoretical concepts to real-world community challenges. This hands-on approach enriches their learning experience while instilling a strong sense of social responsibility.

#### **Active Engagement with Professional Societies**

Our department actively encourages participation in professional organizations such as the Chartered Institute of Building (CIOB) and other leading associations. These memberships provide students with networking opportunities, mentorship, and exposure to global best practices.

#### **Commitment to Sustainable and Ethical Engineering**

Sustainability and ethical decision-making are key components of our curriculum. Our department emphasizes environmentally responsible design, green building practices, and professional ethics, ensuring that our graduates contribute positively to society and the environment.

#### **Strong Student and Alumni Network**

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Our department boasts a vibrant student association that organizes technical events, hands-on workshops, and guest lectures. Additionally, our strong alumni network facilitates:

- **Internships and Placements** – Alumni play a crucial role in providing students with internship opportunities and career placements.
- **Expert Lectures & Knowledge Sharing** – We invite alumni to conduct expert sessions, sharing field experiences and industry insights with current students.

### Real-World Experience through Internships

We facilitate internship programs that bridge the gap between academic learning and industry practice. These internships offer hands-on exposure to real-world projects, helping students develop technical and professional skills.

### Active Presence on Social Media

Our department maintains an active presence on social media platforms such as YouTube, Facebook, LinkedIn, and Instagram. This ensures broader outreach, knowledge sharing, and engagement with students, alumni, and industry professionals.

Through these best practices, we strive to create a dynamic learning environment that fosters technical excellence, innovation, and professional growth in civil engineering.

Innovative Teaching Learning Process done by Civil Faculty members

S • N o	Name of the faculty	Area/Topic/Channel Name	Details (Mode/ link)
1	Dr. A. Geethakarathi	Active Learning Strategies	<a href="#">ACTIVE LEARNING STRATEGIES</a>
2	Dr. A. Vennila	Innovative Assignments	<a href="#">Innovative Assignments.mp4</a>
3	Mr. G. Karthikeyan	Field Visit organization and report	<a href="#">Field Visit Report 29 &amp; 30 Jan 2025.pdf</a>
4	Dr. N. Ramsundram	Research: query 'Why' paves the way forward	<a href="https://youtu.be/QB3mmqQx-mg">https://youtu.be/QB3mmqQx-mg</a>
5	Dr. V. Selvam	Compound bars-Analysis and Design	<a href="https://youtu.be/rzmmz5X9gDNs">https://youtu.be/rzmmz5X9gDNs</a>
6	Mr. G. Karthikeyan	Friction of Objects on inclined plane V3 (friction inclined plane)	<a href="https://youtu.be/5NBuwC2MZBc">https://youtu.be/5NBuwC2MZBc</a>

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7	Dr. N. Ramsundram	Research	<a href="https://www.youtube.com/@ramsundramnarayanan8263">https://www.youtube.com/@ramsundramnarayanan8263</a>
8	Dr. V. Selvam	Strength of Materials	<a href="https://www.youtube.com/@dr.v.selvanvelusamy3524">https://www.youtube.com/@dr.v.selvanvelusamy3524</a>
9	Mr. G. Karthikeyan	G K Learning Platform	<a href="https://www.youtube.com/@GKLearningPlatform">https://www.youtube.com/@GKLearningPlatform</a>