



KUMARAGURU
COLLEGE OF TECHNOLOGY
Character is life

**CIVIL
ENGINEERING
ASSOCIATION**



BUILDERS EXPRESS

**NOVEMBER AND
DECEMBER 2023**



BUILDERS EXPRESS

CIVIL ENGINEERING DEPARTMENT

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 learning delivery platform to rapidly evolving learning its environments. This has resulted in creating a vibrant ambience on campus that engages students in a variety of ways. The cultural ethos of the institution is rooted in its philosophy: Character is Life.

The department started functioning from the very inception of the college in the year 1984. The department is having experienced and well qualified staff and also has well equipped lab facilities. In addition to B.E degree course, three postgraduate courses are being offered. The Department is also actively engaged in R&D, testing and consultancy activities. A well-qualified and dedicated team of staff members provides the necessary strength to the department. The centre is equipped with most modern equipment catering to the requirement of research in water management. Centre for Water and Environmental Studies (CWES) was established in the Department as an extension of this activity. Structural Technology Centre (STC) is an advanced laboratory established in the department in the year 2003 to carry out R&D and Consultancy works in structural design and testing.



**INSIDE
THIS
ISSUE!!**

About KCT Days to
Remember Programmes
Organised Programmes
Attended Papers
Published Paper
Funds Received
Consultancy Works



DAYS TO REMEMBERED :

November 14 (World Diabetes Day/Children's Day) :

World Diabetes Day raises awareness about diabetes prevention and care. In India, Children's Day honours Jawaharlal Nehru, focusing on children's education, welfare, and rights, reflecting Nehru's vision of nurturing young minds as the future of the nation.



November 19 (World Men's Day) :

World Men's Day, celebrated on November 19th, highlights men's positive contributions, promotes gender equality, and focuses on men's health. It addresses challenges like mental health, toxic masculinity, and societal pressures, while also improving gender relations and showcasing male role models.

November 25 (International Day for the Elimination of Violence against Women):

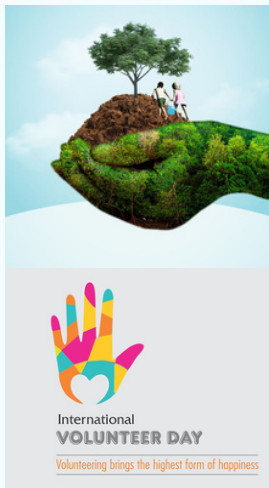
This UN day raises awareness about gender-based violence and advocates for stronger laws and policies to protect women and girls. It marks the beginning of 16 Days of Activism against Gender-Based Violence, promoting global efforts to end violence.





December 2 (International Day for the Abolition of Slavery):

This day highlights the need to eradicate contemporary forms of slavery, such as human trafficking, forced labour, and child exploitation. Established by the United Nations, it encourages governments and organizations to intensify efforts to combat slavery and raise awareness about the ongoing violations of human rights.



December 5 (World Soil Day/International Volunteer Day):

World Soil Day focuses on the importance of healthy soils and sustainable soil management. Simultaneously, International Volunteer Day recognizes and promotes the invaluable contributions of volunteers worldwide, encouraging volunteerism as a means of fostering community spirit and achieving sustainable development goals.

December 9 (International Anti-Corruption Day):

Proclaimed by the UN, this day is observed to raise awareness about corruption and its devastating impact on development, security, and governance. It encourages governments, organizations, and citizens to engage in anti-corruption efforts, promoting transparency, accountability, and good governance globally.





PROGRAM ORGANISED:

Collaborative Activity on the Joint Webinar on “Development of carbon sequestering earth-based 3D printable cementless materials for construction under different environmental exposures”

Organizers: Dr.K. Ramadevi

Speaker: Mr.Pitabash Sahoo, PMRF,
Centre for Sustainable Technologies,
Indian Institute of Science,
Bangaluru

Date: 09.11.2023

The joint webinar on “Development of Carbon Sequestering Earth-Based 3D Printable Cementless Materials for Construction under Different Environmental Exposures” is focused on exploring innovative, sustainable construction materials. The event brings together experts in the fields of materials science, 3D printing, and environmental engineering to discuss the development of earth-based, cementless materials that

can sequester carbon, thereby reducing the carbon footprint of construction. This collaborative event serves as a platform for sharing research, discussing challenges, and identifying future directions in the pursuit of more sustainable construction practices.

Workshop on “From Sketches to Pixels: Mastering VDC and BIM”

Organizer: Mr.A.Aswin Bharath,
Dr.K. Krishnan

Speaker: Dr. Hariharan
Naganathan, Assistant Professor,
Construction Management, School
of Management, Wentworth
Institute of Technology, MA, USA

Date: 11.12.2023

DID YOU KNOW?

CARL TERZAGHI IS CONSIDERED THE FATHER OF MODERN GEOTECHNICAL ENGINEERING, WHICH IS A SPECIALTY AREA OF CIVIL ENGINEERING.



The one-day workshop titled "From Sketches to Pixels: Mastering VDC and BIM" is designed to provide participants with a comprehensive understanding of Virtual Design and Construction (VDC) and Building Information Modeling (BIM) technologies. The workshop focuses on the transition from traditional architectural sketches to digital models, highlighting the integration of these advanced tools in modern construction and design processes. This workshop is ideal for architects, engineers, project managers, and construction professionals looking to deepen their knowledge of VDC and BIM and apply these skills to improve project delivery and collaboration in the construction industry.

Collaborative Activity with Wentworth Institute of Technology

Organizer: Dr.K.Krishnan

Date: 11.12.2023

Our recent collaborative activity with Wentworth Institute of Technology was a dynamic exchange of ideas, expertise, and cultural perspectives. This partnership focused on joint projects, workshops, and research initiatives, providing students and faculty from both institutions the opportunity to work together on cutting-edge technologies and innovative solutions. The collaboration enriched the academic experience, fostered global connections, and enhanced the skill sets of participants. It highlighted the importance of international cooperation in education, paving the way for future collaborations and broader learning opportunities.

DID YOU KNOW?

NATHPA JHAKRI A 1500 MW POWER HOUSE IS THE LARGEST UNDERGROUND POWER HOUSE IN INDIA.



Hackathon on “Smart India Hackathon 2023”

Organizer: Dr.A.Vennila , Mr.A.Aswin
Bharath , Dr.K. Krishnan , Dr. Nabarun
Dey

Speaker: Sh. K. Sanjay Murthy,
Secretary, Higher Education,
Ministry of Education

Date: 19.12.2023 to 23.12.2023

This five day hackathon event gave a Hands on experience on the Hackathon event for the Organizers.The Smart India Hackathon 2023, a national initiative, brought together thousands of students, industry experts, and government representatives to tackle real-world challenges through innovative technological solutions. As a coordinator, the event’s success was driven by seamless collaboration, effective mentorship, and a vibrant atmosphere of creativity.

DID YOU KNOW?

THE BROOKLYN BRIDGE WHICH SPANS THE EAST RIVER WAS DESIGNED BY JOHN ROEBLING. .IT WAS THE LONGEST BRIDGE IN THE WORLD IN 1883.

Participants worked on industry and government-provided problem statements, aiming to develop practical and impactful solutions. The Hackathon not only highlighted the ingenuity of young minds but also strengthened ties between academia and industry, contributing to India’s growth as a hub of innovation.

PROGRAM ATTENDED:

FDP on “Innovation by design thinking and product design and development”

Organizer: Dr.Nabarun Dey

Speaker: Dr. Anil Kumar K K,
Associate DEAN, KCT

Date: 08.11.2023 to 10.11.2023



The recent Faculty Development Programme (FDP) on “Innovation by Design Thinking and Product Design & Development” provided educators with deep insights into modern innovation methodologies. Focused on design thinking principles, the programme explored strategies for ideating, prototyping, and developing products that meet real-world needs. Participants engaged in interactive sessions, gaining practical skills to foster creativity and innovation in their teaching. The FDP emphasized the importance of a user-centric approach in product development, equipping faculty to inspire and guide students in creating impactful, market-ready solutions. And also provided knowledge on product innovation and development strategies.

PAPERS PUBLISHED:

In the month of December ,

- S.B.Umesh, Ms. U Sindhu Vaardini published a paper “ A Review on Barriers in Implementation of Robotics Technology in the Construction Project “ in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT).
- Shrividys S, Ms. U Sindhu Vaardini published a paper on “A Review on Adoption of Bim in Reducing Construction Rework” in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT).

DID YOU KNOW?

THERE ARE CURRENTLY 1712.1 MILLION TONS OF STEEL BEING USED IN THE WORLD TODAY.



- 8. Sakthivel Rajendran, Ramadevi Kanagaraj published a paper on Experimental investigation on Granite waste and Alccofine in concrete in Revista Materia.

CONSULTANCY WORKS:

- Dr. Nabarun Dey and Dr.V. Gayathri earned a revenue of Rs. 38940/- by providing a soil investigation and consultancy work for the "New urban primary Health centre " For Ottuppattarai, Municipality, Coonoor .

DID YOU KNOW?

SMEATON CONSTRUCTED THE EDDYSTONE LIGHTHOUSE AND WAS THE FIRST CIVIL ENGINEER.



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