



CAMBRIDGE INSTITUTE OF TECHNOLOGY

An Autonomous Institution

K.R. PURAM, BANGALORE – 560 036

email: hod.civil@cambridge.edu.in

Department of Civil Engineering

EVENTS (GUEST LECTURE, FDP, SEMINAR, SDP, INDUSTRIAL VISIT)

Our Civil Engineering Department is dedicated to enriching the educational experiences of both students and faculty through a variety of engaging events. We organize several types of events, including **Expert Talks**, where industry leaders and researchers share valuable insights and experiences. Additionally, we conduct **Workshops** that focus on practical skills and emerging technologies. Our **Student Development Programs (SDP)** are specialized initiatives aimed at enhancing student skills and knowledge. We also arrange **Industrial Visits**, providing opportunities for students to observe real-world applications of civil engineering principles. Lastly, our **Faculty Development Programs (FDP)** offer continuous learning opportunities for faculty members to stay updated with advancements in the field.

These events serve as a dynamic platform for knowledge exchange, keeping participants informed about the latest advancements and industry trends. They also enhance skill development through hands-on sessions and real-world case studies. Furthermore, these events create networking opportunities, allowing participants to engage with professionals from leading industries and academic institutions. By equipping students with essential skills and knowledge, we ensure they have a competitive edge in their future career opportunities. Additionally, our FDPs help faculty members continually enhance their expertise and foster a culture of innovation.

Among the various events conducted in our department, some notable ones include:

- The Annual Civil Engineering Seminar, which features esteemed speakers from the industry.
- Workshop/SDP on Sustainable Construction, emphasizing eco-friendly practices.
- Industrial Visit to Local Construction sites offers valuable insights into ongoing projects.
- FDP on Latest Trends in Civil Engineering focuses on enhancing teaching methodologies and research skills.
- INTUIT - Project Exhibition
- Research Activities

These initiatives reflect our commitment to fostering a culture of continuous learning and innovation within the Civil Engineering Department.



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GUEST LECTURE

The Civil Engineering Department organizes various guest lectures to enhance students' understanding of the field by exposing them to expert insights and contemporary practices. These lectures feature industry professionals and academic leaders who share their knowledge on current trends, challenges, and innovations in civil engineering. By participating in these sessions, students gain valuable perspectives that complement their theoretical studies, fostering a deeper grasp of real-world applications and inspiring future career paths. Overall, guest lectures are a crucial element of the curriculum, enriching students' educational experience and professional development.



Guest lecture on “Sustainable Materials and Methods in Civil Engineering”



Guest lecture on “Application of RS and GIS in Civil Engineering”



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Expert talk on “Scope of GIS in Civil Engineering: A Revolution”



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INDUSTRIAL VISIT

The Civil Engineering Department organizes various industrial visits to enhance students' understanding of theoretical concepts by providing practical exposure to real-world applications of civil engineering principles. These visits allow students to observe engineering processes, familiarize themselves with current industry practices, and interact with professionals, thereby bridging the gap between theory and practice. Activities typically include site tours, live demonstrations, workshops, and Q&A sessions with industry experts, all of which contribute to a deeper understanding of the field, insights into career paths, and the development of essential soft skills. Overall, these visits are a vital component of the curriculum, preparing students for their future careers in civil engineering.



Solar Plants at Shivanasamudra



Solar Panels at Shivanasamudra



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Industrial Visit to “Ready Mix Concrete Plant”



Industrial Visit to Krishna Raja Sagar Dam

SITE VISIT

The Civil Engineering Department organizes extensive survey camp and various site visits to enhance students' understanding of practical applications in the field. These activities allow students to engage directly with engineering projects, observe construction processes, and participate in hands-on surveying techniques. By applying theoretical knowledge in real-world settings, students gain valuable insights into the complexities of civil engineering, develop essential skills, and better prepare for their future careers. Overall, site visits and survey camps are critical components of the curriculum, enriching the educational experience and fostering professional growth.



Ongoing Construction of the Building at Chikkabasavanapura, KR Puram, Bengaluru



Ongoing Construction of the Building at Chikkabasavanapura, KR Puram, Bengaluru



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Extensive Survey Camp at Kaiwara



Extensive Survey Camp at Kaiwara



Extensive Survey Camp at Kaiwara



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WORKSHOPS

The Civil Engineering Department organizes various workshops to enhance students' understanding of key concepts and practical skills in the field. These workshops provide hands-on experiences where students can engage in activities such as design, analysis, and project management. Led by industry professionals and faculty, the workshops encourage collaborative learning and problem-solving, allowing students to apply theoretical knowledge in real-world scenarios. This experiential learning not only deepens their comprehension of civil engineering principles but also prepares them for future challenges in their careers. Overall, workshops are an essential part of the curriculum, fostering both academic and professional development.



Four days' workshop on Revit Architecture



Five days' workshop on surveying equipment -Total Station



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Three days' workshop on GIS and Its Application in Civil Engineering



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PROFESSIONAL ISTE ACTIVITY

The Civil Engineering Department organizes ISTE (Indian Society for Technical Education) activities to enhance students' understanding of engineering principles and practices. These activities often include seminars, workshops, and competitions that promote technical skills, teamwork, and innovation. By participating in ISTE activities, students gain exposure to current trends in engineering, network with professionals, and develop critical thinking and problem-solving abilities. This engagement not only enriches their academic experience but also prepares them for future challenges in the civil engineering field. Overall, ISTE activities play a vital role in fostering a comprehensive learning environment.



ISTE on “Draft a Dwelling - an AutoCAD Competition”



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FACULTY DEVELOPMENT PROGRAMME

The Civil Engineering Department organizes Faculty Development Programs (FDPs) to enhance understanding and skills among faculty members. These programs focus on the latest teaching methodologies, research advancements, and technological innovations in civil engineering. By participating in FDPs, faculty can improve their instructional techniques, engage in collaborative learning, and stay updated on industry trends. This professional development not only benefits the educators but also enhances the overall quality of education provided to students, fostering a more effective learning environment. Overall, FDPs are essential for continuous improvement in teaching and research within the department.



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CLUBS/FORUM ACTIVITIES

The Civil Engineering Department organizes a variety of Club and Forum activities that encompass technical, cultural, and sports events, aiming to provide a well-rounded experience for students while enhancing their skills and fostering a sense of community. Technical activities include workshops and seminars focused on specific engineering topics, which help students gain in-depth knowledge and hands-on experience, as well as competitions like hackathons and design contests that encourage innovation and practical application of engineering concepts. Cultural activities allow students to showcase their talents in music, dance, and art through festivals and celebrations, promoting creativity and cultural awareness, while debates and discussions provide forums for addressing contemporary issues in civil engineering and society, enhancing critical thinking and communication skills. Sports activities, such as inter-departmental tournaments and fitness programs, foster teamwork and physical fitness, offering a break from academic pressures and encouraging a healthy lifestyle. Overall, participation in these diverse activities promotes holistic development, networking opportunities, and stress relief, significantly contributing to the educational experience in the Civil Engineering Department and preparing students for both professional and personal success.



“Soft Skills Training for Engineering Students”



Forum Activity - “Dance Competition”



“Bridge Building Challenge”



Group Discussion on "Scope of Civil Engineering in an AI-Driven World"



E-Waste Management Process



“Swachh Bharat Mission Quiz”



Debate on “Life Before and After COVID - 19”

“World Environment Day”





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World Water Conservation Day



Nation Energy Conservation Day



Cooking without Fire competition



Technical Talk on energy conservation by Ms. Somu Nagamani final year student



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INTUIT

The Civil Engineering Department organizes Project Exhibition Intuit every year as a platform for students to showcase their innovative projects and research work, highlighting their creativity and technical skills. This event allows students to display their projects, which may include design models, research papers, and practical applications of engineering principles. Participants engage with visitors through interactive presentations, explaining their work and answering questions. The exhibition often features a panel of judges composed of faculty and industry experts who evaluate the projects and award prizes for outstanding work. Additionally, the event serves as a networking opportunity, connecting students with faculty, industry professionals, and potential employers. The Project Exhibition enhances students' presentation and communication skills, provides valuable feedback for improvement, and offers recognition for their hard work and creativity. Overall, it is a significant event in the Civil Engineering Department that encourages students to apply their knowledge, engage with peers, and prepare for future professional endeavours.



Intuit 2024



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Intuit 2024



Intuit 2024



Best Project Award



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RESEARCH ACTIVITIES

The Civil Engineering Department is actively involved in research activities and the development of funded projects and proposals, emphasizing its commitment to advancing knowledge and innovation in the field. Faculty and students collaborate on various research initiatives that address contemporary challenges in civil engineering, including sustainable construction practices, infrastructure development, and environmental impact assessments. The department explores a wide range of topics, from structural engineering and materials science to transportation and geotechnical engineering. Notably, interdisciplinary research activities are a significant focus, fostering collaboration with other departments and disciplines. These collaborations enhance the scope and impact of research efforts, allowing for comprehensive solutions to complex problems. Student involvement in these projects provides valuable hands-on experience and fosters a deeper understanding of real-world applications. Overall, the department's research activities play a crucial role in contributing to the advancement of civil engineering practices and solutions.

On Going Funded Projects:

- 1) The Future of Farming: AI-Controlled, Electrical Plant Stimulation for Accelerated Crop Growth.
- 2) Innovative Fire Safety Solutions Using Pineapple peel-Derived Chemicals.
- 3) Landslide Early Warning System: A Sensor-Based IoT Approach.

Other on Going Funded Projects:

- 1) Utilization of TB Dam Reservoir Dredged sediments for engineering application.
- 2) Application of Tamarind seed extract in sustainable soil stabilization.
- 3) Characterization of Dredged sediment along Indian coastal line for creating Dredgability Index.



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EXPERIENTIAL LEARNING



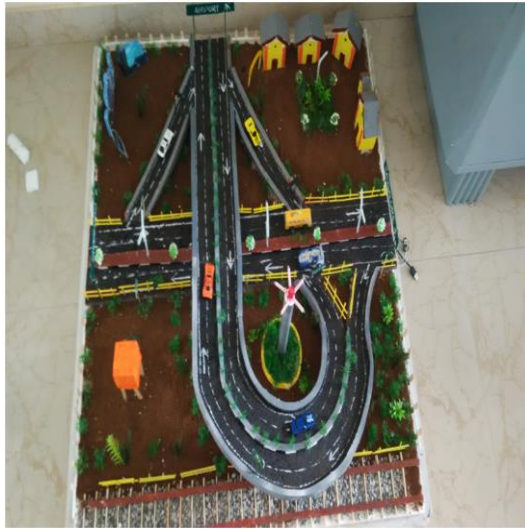
Model of Double Decker Flyover



Model of Overhead Water Tank



Fig.1: Suspension Bridge Model



Model making on transportation engineering



Model of Aqueduct [Inspired by Mathur Thotti Bridge]



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Model of Cable-Stayed Bridge



Students exhibiting a model showing the wastewater filtration process



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MOU Details

Sl. No.	Name of the Organization	Purpose of MOU	Date & Year of MOU	Status	Activities conducted / Planned	Outcome
1	CAAD Centre, Indiranagar, Bangalore	Students Training and placement	17/05/2022	Active	Revit Arc	Students' certification from CADD centre
2	Bharatha Bhoomi, Bangalore	Students Training and placement	17/12/2022	Active	GIS Application in Civil Engineering	Students certification from Bharatha Bhoomi
3	Reaching Hands, Bangalore	Students Training and placement	23/02/2023	Active	Industrial visit to Silk Factory, Solar factory, and Gundal Dam software training Auto CAAD 2D, 3D, Revit, 3D Max	2 students placed in sigma AVI