METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY
(An UGC-AUTONOMOUS INSTITUTION)
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CIVIL TIMES

DEPARTMENT OF CIVIL ENGINEERING

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Seminar on 'Empowering Civil Engineers: Exploring AI Driven Software and Sustainable Career Opportunities

Speaker: Mr. Chand Basha Shaik, RGUKT RK Valley QS & Billing Engineer.

Date: 02 December 2024

Number of Students attended: 38

A seminar on “Empowering Civil Engineers: Exploring AI-Driven Software and Sustainable Career Opportunities” was organized to introduce students to the evolving role of artificial intelligence in the civil engineering profession. The seminar aimed to bridge the gap between traditional engineering practices and emerging digital technologies shaping the construction and infrastructure sectors.

The resource persons discussed the application of AI-driven software in areas such as structural design, project planning, quantity estimation, risk assessment, and construction management. Tools related to Building Information Modeling (BIM), automation, and data-driven decision-making were explained with practical examples, highlighting how these technologies improve efficiency, accuracy, and sustainability in projects.





Seminar on “Role of Geoinformatics for Sustainable Development”

Speaker: Dr. M. V. Ravi Babu

Date : 23 November 2024

Number of Students attended: 33

A seminar on “Role of Geoinformatics for Sustainable Development” was conducted with the objective of creating awareness about the importance of geospatial technologies in addressing environmental and developmental challenges. The seminar highlighted how geoinformatics plays a crucial role in planning, monitoring, and managing resources in a sustainable manner. The speaker explained the fundamentals of geoinformatics, including Geographic Information Systems (GIS), Remote Sensing, and Global Positioning Systems (GPS), and their applications in civil engineering. Practical examples were shared on the use of geoinformatics in urban planning, land use analysis, transportation planning, water resource management, disaster mitigation, and environmental impact assessment.

Special emphasis was laid on the role of geospatial data in supporting sustainable development goals such as efficient infrastructure planning, conservation of natural resources, and climate resilience.



Seminar on “Unlocking Global Opportunities: Higher Education Guidance for Students”

Speaker: Mr. Ramesh Pathi, Advisor, International Affairs.

In collaboration with: IIIC and Professional Societies of Civil Department.

Date: 12 November 2024

Number of Students attended: 37

A seminar on “Unlocking Global Opportunities: Higher Education Guidance for Students” was organized to guide students aspiring to pursue higher education abroad. The seminar aimed to create awareness about international academic opportunities and help students make informed decisions regarding their future studies. The speaker provided detailed information on higher education options in countries such as the USA, UK, Canada, Australia, and Europe. Key aspects including admission procedures, eligibility criteria, entrance examinations, language proficiency tests, and application timelines were discussed. Guidance was also offered on selecting suitable universities, courses, and specializations aligned with students’ academic interests and career goals.

Site Visit to Sewage Treatment Plant

Site Address: Sewage Treatment Plant, Amberpet

Date: 08 November 2024

Number of Students attended: 34

A student site visit to a Sewage Treatment Plant (STP) was organized to provide practical exposure to wastewater management and environmental engineering practices. The visit aimed to bridge theoretical knowledge with real-world applications in sanitation and public health infrastructure.

During the visit, students observed the various stages of sewage treatment, including screening, grit removal, primary sedimentation, biological treatment, and disinfection processes. The functioning of equipment such as clarifiers, aeration tanks, and sludge handling units was explained in detail. Emphasis was placed on environmental regulations, quality standards, and sustainable practices in wastewater treatment.

Students interacted with plant engineers to understand operational challenges, maintenance protocols, and modern techniques adopted for efficiency and compliance. The visit offered firsthand insights into the critical role of civil and environmental engineers in managing urban wastewater systems and promoting sustainable water resource management, helping students connect classroom concepts with practical infrastructure solutions.

Student Training Programme on Quantum Geographic Information System (QGIS)

Speaker: Dr. V. Vani from VIT Institute of Technology, Vellore

Date: 2nd to 7th December 2024.

Number of Students attended: 34

The Department of Civil Engineering organized a Student Training Programme on Quantum Geographic Information System (QGIS) from 2nd to 7th December 2024 with the objective of introducing students to open-source geospatial tools and their practical applications. The programme was designed to enhance students' analytical and mapping skills relevant to planning and infrastructure development. During the training, students were introduced to the fundamentals of GIS, spatial data handling, map creation, and basic geospatial analysis using QGIS. Hands-on sessions enabled participants to work with real datasets, perform layering, attribute analysis, and visualize spatial information effectively. The training also highlighted applications of QGIS in urban planning, transportation, water resources, and environmental studies.



Student Training Program on "TEKLA Structures: Steel Detailing"

Speaker: Mr. Mohammad Jawad, S. R. Civil Academy

Date : 18 November to 30 November 2024

Number of Students attended: 37

A student training program on "TEKLA Structures: Steel Detailing" was conducted to provide students with specialized knowledge in structural steel detailing using industry-standard software. The program aimed to strengthen students' understanding of steel structures and their detailed design requirements.

The training introduced students to TEKLA Structures, focusing on 3D modeling of steel components such as beams, columns, connections, and bracings. Participants learned to prepare detailed fabrication drawings, shop drawings, and erection plans with high accuracy. The sessions also covered concepts related to material specifications, bolt and weld detailing, and clash-free modeling.

Hands-on practice formed a key part of the program, enabling students to convert structural design concepts into precise digital models. Emphasis was placed on accuracy, coordination, and adherence to industry standards commonly followed in steel construction projects.



Site Visit to Bridge Construction Project

Site Address: Moosarambagh (Musi River)

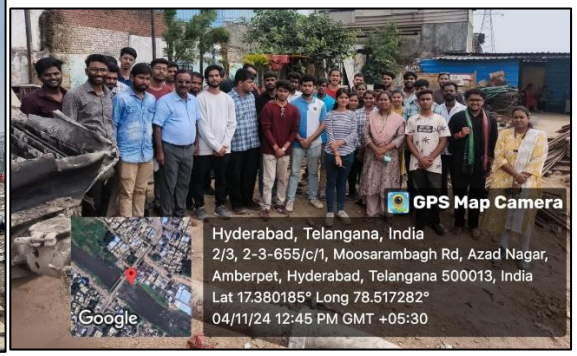
Speaker: V. Venkateshwarulu, Project manager.

Date: 04 November 2024

Number of Students attended: 45

A site visit to an ongoing bridge construction project was organized in 2024 to provide students with practical insights into large-scale structural engineering and construction management. The visit aimed to connect theoretical learning with real-world engineering practices. During the visit, students observed various stages of bridge construction, including foundation work, pier and abutment formation, superstructure assembly, and deck casting. The use of construction equipment, formwork systems, reinforcement detailing, and concrete pouring techniques was demonstrated. Safety measures and quality control protocols implemented on-site were also explained. Engineers on-site discussed project planning, resource management, and the challenges encountered during construction, highlighting practical solutions and decision-making processes. Students were encouraged to ask questions and gain a deeper understanding of structural design implementation, load considerations, and material performance in bridge projects.





Faculty Participation in Seminars, Workshops, and FDPs

Date	Event type	Event Details	Faculty Name
26 October 2024	Workshop	NBA Tier-I Accreditation: Enhancing Quality and Excellence	Dr. Bandita Naik, Mrs Shaista Begum, Mr. R. Srikanth, Mr. D. Bharat Naik, Mrs M Mary Soujanya, Mrs S Deva Samyuktha, Ms M Madhuri, Mr A Madhusudhan, Mr P Srikanth, Ms J Divya, Ms Shiphali Preeti Aind
16 to 21 December 2024	FDP	FDP on AI Tools in Action: Research Writing & Realworld Solutions through Hands-on Learning.	Dr. Bandita Naik
21 & 22 December 2024	Workshop	6th National level workshop on NIRF India Rankings	Dr. Bandita Naik
01 December 2024	webinar	Mastering Sub-Structure Design with CSI Safe – A Practical Guide for Engineers at All Levels	Mrs M Mary Soujanya
24 December 2024	webinar	STAAD RCDC for Engineers - Practical Insights into Column Design at All Levels	Mrs M Mary Soujanya
25 to 29 November 2024	FDP	FDP on Advanced ANSYS Mechanical Software	Ms M Madhuri
01 December 2024	Training Course	Driking Water Explained for ESG Water Conservation	Ms Shiphali Preeti Aind
25th November 2024	Training Course	GIS Software & Application Online Course	Ms Shiphali Preeti Aind
24th November 2024	Training Course	BMS - Building Management System Crash Course (2 in 1 Offer)	Ms Shiphali Preeti Aind

Paper publications by faculty

- A research article titled **"Assessment of Vertical Accuracy of Various Open-Source Digital Elevation Models Over Prakasam District (India)"** by **Shaik Md Imran** was published in Sustainable Design and Eco Technologies for Infrastructure, Lecture Notes in Civil Engineering, Volume 441, pages 449–461, on 04 October 2024. The study evaluates the vertical accuracy of different open-source Digital Elevation Models (DEMs) for the Prakasam District, providing valuable insights for geospatial analysis, infrastructure planning, and sustainable development in civil engineering projects.
- A research article titled **"Assessment of Strength Properties of Clayey Sand Soils Admixed with Marble Powder, GGBS and Geotextile Reinforcement"** by **D. Bharath Naik** was published in the International Research Journal of Multidisciplinary Technovation, Volume 6, Issue 6, pages 159–168**,** on 21 November 2024**.** The study focuses on enhancing the strength and stability of clayey sand soils using industrial by-products and geotextile reinforcement, offering practical solutions for sustainable and resilient construction practices in civil engineering.

Patents Published

Mrs. Shaista Begum successfully published a patent titled **"Innovative Shear Wall Systems: Enhancing Lateral Load Resistance in High-Rise Buildings"** on **29 November 2024**. The patent presents advanced structural solutions to improve lateral load resistance in high-rise constructions, contributing to safer, more resilient, and sustainable building designs in urban environments.



Memorandums of Understanding (MOUs)

The department has strengthened collaborations with leading institutions and organizations through several Memorandums of Understanding (MOUs) to enhance training, research, skill development, and social responsibility initiatives.

- A MoU was signed with the Engineering Staff College of India (ESCI) on 28 November 2024, to facilitate training, research, and technology development**.**
- The department entered into an MoU with S.R Civil Academy on 14 November 2024, to promote skill development, certified courses, placement opportunities, and related services for students.
- A MoU was also signed with Earthbox on 12 November 2024, to support social initiatives focused on recycling dry waste and environmental protection**.**

These partnerships aim to provide students and faculty with practical exposure, industry insights, and community-oriented learning opportunities**.**



Student participations and achievements

03–04 December 2024

Sohan Kumar Byndla (I Semester) clinched the Gold Medal in Boxing at the Osmania University Inter-College Sports & Games 2024–25 held at Nizam College Boxing Hall, Hyderabad.

Cultural Activities

The department actively participated in college-level events to promote cultural engagement and student interaction in 2024.

Freshers' Day was celebrated on 5 October 2024 at Methodist College of Engineering and Technology, welcoming new students and fostering a sense of community through fun-filled activities and performances.

Bathukamma Celebrations were also held on 5 October 2024, where students and faculty participated in traditional floral festivities, promoting cultural heritage and community spirit.

The Annual Day Celebrations marked the culmination of the year's academic and extracurricular achievements, highlighting student accomplishments and departmental contributions in a grand event at the college.

Parent Teacher Meeting

A Parent–Teacher Meeting was conducted on 08 November 2024 at E Block, Ground Floor to update parents on their wards' academic performance and marks. The discussion focused on the preparation required for the upcoming end examinations**.** The meeting was productive, fostering effective communication between parents and faculty to support students' academic improvement and exam readiness.

Programs conducted on Social Responsibility Initiatives

The department organized a **First Aid Management program** on 23 November 2024 at the college, which saw the participation of 121 students. The program focused on enhancing preparedness and equipping students with essential first aid skills for handling emergencies effectively.

Additionally, an **Eye Checkup camp** was conducted on 14 and 16 November 2024 at the college, with 206 participants undergoing screening. The initiative aimed to promote eye health awareness, early detection of vision issues, and preventive care among students and staff.