METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY
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CIVIL TIMES

DEPARTMENT OF CIVIL ENGINEERING

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Exploring the industry: Student Visit to Ultratech Cement

Site address: Ultratech cements, Fatepur, Shankarpally-Vikarabad road, Telangana

Date: 25 April 2024

Number of Students attended: 34

As part of the department's efforts to bridge the gap between classroom learning and real-world applications, a student industrial visit to UltraTech Cement was organized. The visit aimed to provide students with firsthand exposure to large-scale cement manufacturing processes and industrial practices followed in one of India's leading cement companies. During the visit, students were introduced to various stages of cement production, including raw material extraction, crushing, grinding, clinker formation, and final packaging.

Overall, the industrial visit to UltraTech Cement was an enriching experience that enhanced students' technical knowledge, industrial awareness, and professional outlook, making it a valuable learning opportunity beyond the classroom.



Faculty Participation in Seminars, Workshops, and FDPs

Date	Event type	Event Details	Faculty Name
08-04-2024	Webinar	Information Literacy and academic excellence	Ms. M. Madhuri
30/05/204 to 31/05/24	Conference	Innovations, challenges and solutions in Engineering Science and Technology	Ms. M. Madhuri
7/06/2024	Webinar	Innovative Waterproofing Solutions for Above Ground Structures	Ms. Shiphali Preeti Aind
1/04/2024 to 5/04/2024	FDP	Online FDP on 3D Printing in Construction Technology	Mrs. S. Deva Samyuktha
04/05/2024	Workshop	Strategies to strengthen the Institutional Capacities for Quality, Ranking, and Accreditation	Dr Bandita Naik

Collaborations and Partnerships

As part of strengthening industry and institutional collaborations, the department facilitated several internships and project-based learning initiatives during the academic year 2023–24.

In collaboration with the Survey of India, students undertook internships on “Flood Modelling and Prediction” and “Accuracy of DEM” from 01 April 2024 to 10 May 2024. These internships provided hands-on exposure to geospatial data analysis, terrain modelling, and flood prediction techniques, enhancing students’ practical understanding of real-time surveying and disaster management applications.

The department also collaborated with the Environmental Protection Training Institute (EPTI) to carry out impactful project works from 01 April 2024 to 15 June 2024. The projects included “Environmental Pollution Levels in Hyderabad City”, “Comparative Analysis of Wastewater Treatment between Chandenvalle and Himayat Sagar Lakes”, and “Feasibility Study to Establish White Water River Rafting in Musi River”.

As a part of collaborative project activities, students undertook a project titled “Drivers’ Behaviour on Posted Speed Limit” in association with the Central Road Research Institute (CRRI) from 03 October 2023 to 07 October 2023. The project focused on analyzing driver compliance with speed regulations and understanding traffic behavior patterns, contributing to improved road safety measures and traffic management practices.

These projects enabled students to address real-world environmental and water resource challenges, fostering research skills, environmental awareness, and sustainable engineering practices.

Patents, Innovations and Start-ups

- **Dr. Bandita Naik** was granted a patent titled **“AI Based Solar Powered Electric Vehicle”** on 06 June 2024. The innovation integrates artificial intelligence with solar-powered electric vehicle technology to enhance energy efficiency, performance optimization, and sustainable mobility solutions. This achievement reflects her significant contribution to green technology and advanced engineering research, bringing distinction to the department and the institution.
- **Ms. Shiphali Preeti Aind** successfully published a patent titled “**Biodegradation of Plastic Waste by Tenebrio molitor (Mealworms): Mechanisms, Optimization and Environmental Implications”** on 12 April

2024. The patent highlights an innovative and eco-friendly approach to plastic waste management by utilizing biological degradation processes, contributing significantly to environmental sustainability and waste reduction strategies.

Department Consultancy Works

The department provided Third Party Quality Control Services for Civil Works of the Greater Hyderabad Municipal Corporation (GHMC) (excluding CRMP, Housing, and works having PMC) from 01 April 2021 to 31 July 2024. This engagement focused on ensuring quality assurance, adherence to prescribed standards, and effective monitoring of civil infrastructure projects, thereby contributing to improved construction quality and public service delivery.

Programs conducted on Social Responsibility Initiatives

The department organized an Awareness Program on Child Abuse, Traffic, and Hidden Cameras on 22 April 2024 at Seminar Hall, D Block, MCET. The program aimed to educate students on critical safety issues, including child protection, traffic rules, and the responsible use of technology. Through informative sessions and discussions, participants gained valuable insights into personal safety, legal awareness, and ethical conduct in day-to-day life.

Student Achievement

Students MD Sana and N. Sai Deekshitha Devi of the Civil Engineering Department participated in the International Conference on Innovations, Challenges and Solutions in Engineering Science and Technology. The conference provided them with exposure to recent research trends and innovative solutions in engineering, while offering valuable interaction with academicians and industry experts.

Departmental Parent-Teacher Meeting

A Parent–Teacher Interaction Meeting was conducted on 06 April 2024 for the mentees of E301 and E310. During the meeting, parents were informed about their wards' attendance status up to date, including cases of attendance detention, and were also updated on academic performance and internal assessment results. Detailed discussions were held regarding the subjects in which the mentees need improvement.

Parents acknowledged their wards' absenteeism and assured regular attendance henceforth. They also interacted with the respective subject faculty members to understand the Internal–I marks and academic progress of their wards. The meeting helped strengthen communication between parents and faculty, aiming at improved academic performance and discipline among students.