METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY
(An UGC-AUTONOMOUS INSTITUTION)
Accredited by NAAC with A+ and NBA
Estd : 2008 Affiliated to Osmania University & Approved by AICTE



DEPARTMENT OF CIVIL ENGINEERING

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VISION

To evolve into a centre of excellence for imparting holistic civil engineering education contributing towards sustainable development of the society.

MISSION

M1: To impart quality civil engineering education blended with contemporary and interdisciplinary skills.

M2: To provide enhanced learning facilities and professional collaborations to impart a culture of continuous learning.

M3: To involve in trainings and activities on communication skills, teamwork, professional ethics, environmental protection and sustainable development

PROGRAM EDUCATIONAL OBJECTIVES

PEO1. Engage in planning, analysis, design, construction, operation and maintenance of built environment.

PEO2. Apply the knowledge of civil engineering to pursue research or to engage in professional practice.

PEO3. Work effectively as individuals and as team members in multidisciplinary projects with organizational and communication skills.

PEO4. Demonstrate the spirit of lifelong learning and career enhancement aligned to professional and societal needs.

PROGRAM OUTCOMES

PO1. Engineering knowledge

PO2. Problem analysis

PO3. Design/development of solutions

PO4. Conduct investigations of complex problems

PO5. Engineering tool usage

PO6. The Engineer and The World

PO7. Ethics

PO8. Individual and Collaborative Team work

PO9. Communication

PO10. Project Management and Finance

PO11. Life-long learning

PROGRAM SPECIFIC OUTCOMES

PSO1: Core Competency in Civil Engineering: Apply core principles of civil engineering, to analyze and design sustainable and resilient infrastructure.

PSO2: Proficiency in Tools and Techniques: Effectively utilize modern engineering tools, software, and techniques to address civil engineering challenges.

PSO3: Sustainable Development Practices: Demonstrate principles of sustainable development in civil engineering solutions.

Emerging Technology in Civil Engineering and opportunities for Civil Engineers

Speaker: Mr. Ravi Kumar, Senior Faculty, National Academy of Construction.

Date/time: 02 Feb 2024 10.30am

The Department of Civil Engineering organized a seminar on “Emerging Technology in Civil Engineering and Opportunities for Civil Engineers” with the objective of creating awareness among students about the latest technological advancements and career prospects in the field of civil engineering.

The seminar focused on the career opportunities available for civil engineers in emerging domains including BIM consultancy, smart city projects, infrastructure planning, environmental engineering, research and development, and entrepreneurship. Students were encouraged to upgrade their technical skills, pursue relevant certifications, and adapt to interdisciplinary learning to meet industry demands. The session concluded with an interactive discussion, where students clarified their queries regarding future career paths and skill requirements.



Student Visit to National Academy of Construction, Hitech City

Speaker: Mr. Ravi Kumar, Senior Faculty, National Academy of Construction.

Date/time: 18 march 2024

On 18th March 2024, 2nd and 3rd year students of the Department of Civil Engineering visited the National Academy of Construction (NAC), Hitech City, as part of an academic exposure initiative. The visit was organized to familiarize students with skill-based training, modern construction practices, and industry-oriented learning environments.

Students gained insights into how theoretical concepts are translated into practical applications through structured training programs. The visit encouraged students to appreciate the value of professional skill development and continuous learning, offering a broader perspective on career preparation and industry expectations in the field of civil engineering.



Faculty Achievements

- **Dr. Bandita Naik**, head of the department, was honoured with the **Best Researcher Award** by the **Knowledge Research Academy** on **29 February 2024**. The award recognizes her outstanding contributions to research, scholarly publications, and her commitment to advancing knowledge in her field. This achievement highlights her dedication to academic excellence and brings laurels to the department and the institution.
- **Mr. Shaik Mohammad Imran**, faculty member of the department, was honoured with the **Best Young Faculty Award** by the **Knowledge Research Academy** on **28 February 2024**. This recognition was conferred in appreciation of his dedicated contributions to teaching, academic excellence, and professional development. The award reflects his commitment to innovation in education and his continuous efforts to inspire students and uphold the academic standards of the institution.

Patents Published

- **Ms. M. Madhuri** successfully published a patent titled "**Viability of the Hyper Loop Technology for Ultra High-Speed Travel in India**" on 26 March 2024. The patent focuses on evaluating the feasibility and potential of Hyperloop technology as a next-generation transportation system in the Indian context, emphasizing innovation in high-speed and sustainable travel solutions.
- **Mrs. M. Mary Soujanya, Ms. Shiphali Preeti Aind, and Mrs. S. Deva Samyuktha** were granted a published patent titled "**Standard Quality Biodiesel Generated from Indian Crops – Cotton, Maize and Sunflower**" on 07 March 2024. This research highlights the production of eco-friendly and

sustainable biodiesel using indigenous agricultural resources, contributing to renewable energy development and environmental sustainability.

- **Mrs. M. Mary Soujanya** also published a patent titled "**Desert Sand Bio-Bricks: Sustainable Construction Materials for Arid Environments**" on 26 March 2024. The innovation focuses on developing sustainable construction materials using desert sand, offering an environmentally responsible solution for construction challenges in arid and semi-arid regions.
- **Mr. P. Srikanth** successfully published a patent titled "**Shoreline Stabilization to Protect Against Erosion Using Biomimicry to Maintain the Integrity of Marine Structures"** on 22 March 2024. The patent presents an innovative, nature-inspired approach to coastal protection, aiming to reduce shoreline erosion while enhancing the durability and sustainability of marine structures. This work reflects a significant contribution to environmentally responsible coastal and marine engineering solutions.

Research collaborations and Industry partnerships

The department signed a **Memorandum of Understanding (MoU)** with the **National Academy of Construction** on 28 March 2024, to facilitate outsourcing services. This collaboration aims to strengthen industry–academia interaction by providing practical exposure, skill development opportunities, and technical support, thereby enhancing the professional competencies of students and faculty.

Department Consultancy Works

The department entered into an agreement with the Greater Hyderabad Municipal Corporation (GHMC) for providing Third Party Quality Control Services in six (6) circles for SNDP works, effective from 16 February 2022 to 31 March 2025. The association focuses on ensuring quality assurance, compliance with standards, and effective monitoring of infrastructure works, thereby contributing to improved construction quality and public utility services.

Programs conducted with NSS on Social Responsibility

- As a part of Social Responsibility Initiatives, the department, in collaboration with NSS, successfully conducted NID-2024 from 3rd to 5th March 2024 at Seminar Hall-D. The program witnessed active participation of 16 students and focused on creating awareness and encouraging responsible citizenship through social outreach activities. The initiative reinforced the values of community service, discipline, and social commitment among the participants.
- The department organized Productivity Day on 16 February 2024 at Seminar Hall, D Block, MCET. The program saw the enthusiastic participation of 28 students and focused on highlighting the importance of productivity, efficient work practices, and time management in academic and professional life. The event encouraged students to adopt productive habits and develop a proactive approach towards personal and organizational growth.
- The department observed World Wetlands Day on 2 February 2024 at Seminar Hall, D Block, MCET. The program emphasized the importance of wetlands in maintaining ecological balance, biodiversity conservation, and sustainable water resources. Through informative sessions and discussions,

participants were made aware of the need to protect and preserve wetlands for environmental sustainability and future generations.

Faculty Participation in Seminars, Workshops, and FDPs

Date	Event type	Event Details	Faculty Name
7th February 2024	Webinar	Building your Dream Home: From Concept to Completion	Mrs M Mary Soujanya, Ms. Shiphali Preeti Aind, Mrs. S. Deva Samyuktha
10th Jan 2024	Webinar	Importance of Sustainability in Building Homes	Mrs. S. Deva Samyuktha
25th to 29th March 2024	Online FDP	Application of Open Software in Civil Engineering	Dr Bandita Naik
21st to 22nd Mar 2024	Workshop	Workshop on Artificial Intelligence (AI) in Rural Development &Panchayati Raj	Dr Bandita Naik
21st to 22nd Mar 2024	Workshop	Workshop on Artificial Intelligence (AI) in Rural Development &Panchayati Raj	Mr. R. Srikanth