



MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY AND MANAGEMENT

**DEPARTMENT OF
CIVIL ENGINEERING**

INQUEST

— THE CIVIL ENGINEERING MAGAZINE —

APRIL 2026 | VOLUME 1



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It gives us immense pleasure to present **INQUEST**, the official magazine of the **Department of Civil Engineering**. This edition stands as a reflection of the collective intellect, creativity, and technical excellence of our students and faculty. It is not merely a compilation of articles, but a platform that captures the spirit of innovation, inquiry, and continuous learning that defines our department.

Civil Engineering, being the backbone of infrastructure development, demands a perfect blend of theoretical knowledge, practical exposure, and innovative thinking. Through **INQUEST**, we aim to showcase this blend by highlighting student achievements, technical articles, research insights, outreach activities, and creative expressions. Each contribution in this magazine represents the dedication, curiosity, and hard work of our students who strive to excel in both academic and professional domains.

This magazine also reflects the department's commitment to **Outcome-Based Education (OBE)**, industry collaboration, and sustainable development. The inclusion of activities such as technical fests, outreach programs, international collaborations, and student innovations demonstrates our continuous efforts to bridge the gap between classroom learning and real-world applications.

We extend our sincere gratitude to the management, faculty members, and all contributors who have supported us in bringing out this edition successfully. Their guidance and encouragement have played a vital role in shaping this publication.

We hope that **INQUEST** serves as a source of inspiration, knowledge, and motivation for all readers. May it continue to encourage young minds to explore, innovate, and contribute towards building a sustainable and resilient future.



INSPIRE LEADERS



Sri Marri Laxman Reddy
Chairman, MLRITM

The pride of every student and staff would be in his/her college. A college may reach heights of glory but without materials like a college magazine, the outside world may not know of it. The role of a college magazine is therefore vital in promoting what an institution offers. It brings out into the open things hitherto unrevealed. It brings to light the names of the unsung heroes and their mighty deeds. I am happy that there is a dedicated team of staff and students who have brought out the magazine of our college. They have presented the stupendous achievements of Marri Laxman Reddy Institute of Technology & Management in the fields of academics, research, sports and extra-curricular activities, in a nice way. Dazzle represents the collective work of the team. I wish the magazine a grand success.



Ms Anu Shreya Reddy
Secretary, MLRITM

It is happiness unlimited to see Marri Laxman Reddy Institute of Technology & Management breaking barriers and moving forward confidently. The adage "Fortune favors the bold" is very true in the case of MLRITM. There is nothing... absolutely nothing that stops the MLRITM juggernaut from rolling forward, going on boldly from one project to another... leaving the spectators spell-bound. Everything that MLRITM touches turns into gold. All these things have been made possible by the extraordinary vision and the immaculate planning of our chairman, which when coupled with the skills of the staff have made the college scale new highs. This magazine brings out the notable achievements of MLRITM. I am sure that through these pages readers will get a bird's eye view of MLRITM and its wonders.



Dr. P Sridhar
Director, MLRITM

It is a pleasure to witness the creative contributions of students in INQUEST. The magazine reflects the steady growth of MLRITM and highlights key achievements in academics, research, and innovation across the campus. It showcases conferences, competitions, and student projects guided by dedicated faculty, reflecting the collective efforts of the institution. The content of this magazine also demonstrates the enthusiasm, creativity, and commitment of students towards continuous learning and professional development. It serves as a platform for young minds to express their ideas, share knowledge, and develop a spirit of collaboration and innovation. Such initiatives play a vital role in nurturing technical competence and holistic growth among students. I extend my best wishes to the management, staff, and students for continued success in their future endeavors.



Dr. K Murali
HoD-CE, MLRITM

I am happy to learn that MLRITM College of Engineering is coming out with the half yearly college magazine. Efforts such as this will provide an opportunity for the staff and students to showcase their talents in technical writing, essay and poetry writings, sketching and drawings, among others. Such value additions are very much essential for the young technocrats, engineers and scientists, who the college produces, to demonstrate their ideas for a developed India. I sincerely appreciate and congratulate the Chairman, Principal, the editorial team and the entire management of the college for their unrelenting efforts in compiling this magazine.



DEPARTMENT INSIGHTS



Institution Vision

To be a globally recognized institution that fosters innovation, excellence, and leadership in education, research, and technology development, empowering students to create sustainable solutions for the advancement of society.

Institution Mission

- ✚ To foster a transformative learning environment that empowers students to excel in engineering, innovation, and leadership.
- ✚ To produce skilled, ethical, and socially responsible engineers who contribute to sustainable technological advancements and address global challenges.
- ✚ To Shape future leaders through cutting-edge research, industry collaboration and community engagement.

Vision of the Civil Engineering Department

To empower students to be skilled, competitive and dedicated Civil Engineers by imparting advanced technical knowledge and ethical values, equipping them to play a key role in the planning and execution of the nation's infrastructure and development activities.

Mission of the Civil Engineering Department

- M1:** Provide quality education in civil engineering through a combination of excellent teaching, advanced facilities, and continuous mentorship.
- M2:** Produce civil engineering graduates who demonstrate strong skills and expertise.
- M3:** Encourage professional development to address complex technical challenges and engage in innovation with creativity, leadership, ethics, and social awareness.

M.Tech Structural Engineering Program Educational Objectives (PEOs)

PEO1	Equip for success in the engineering domain through a strong foundation in structural engineering and advanced design skills.
PEO2	Foster industrial awareness and a research-oriented mindset by engaging with emerging trends and technologies in structural engineering.
PEO3	Prepare for successful employment by developing professional ethics and critical thinking to address evolving societal needs.
PEO4	Develop leadership qualities to excel in professional and societal environments, contributing responsibly and ethically.

M.Tech Structural Engineering Program Outcomes (POs)

PO1	Research/ investigation: Independently carry out research /investigation and development work to solve practical problems
PO2	Report Preparation: Write and present a substantial technical report/document
PO3	Domain Mastery: Demonstrate a degree of mastery over the area in Structural Engineering
PO4	Multi-Disciplinary Knowledge: Impart core and interdisciplinary knowledge for analyzing and solving complex problems in structural engineering and related domains.
PO5	Design and Sustainability: Conceptualize and design safe, efficient, and sustainable civil engineering structures in social, economic, and environmental factors.
PO6	Lifelong Learning and Professional Development: Engage in lifelong learning through continuous education, research, and professional development.



DEPARTMENT INSIGHTS



B.Tech Civil Engineering Program Educational Objectives (PEOs)

PEO1	Professional Excellence Analyze, design, build, maintain, or improve civil engineering-based systems, considering environmental, economic, and societal requirements.
PEO2	Multidisciplinary Approach Develop a strong educational foundation to design and conduct experiments, meeting needs within multidisciplinary constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability, while analyzing and interpreting data.
PEO3	Continued Self-Learning Identify, formulate, and solve engineering problems, and engage in lifelong learning in advanced areas of civil engineering and related fields.
PEO4	Effective Contribution to Society Utilize modern engineering techniques, skills, and tools necessary for civil engineering practice, serving the community as ethical and responsible professionals.

B.Tech Civil Engineering Program Outcomes (POs)

PO1	Engineering knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to Wk4)
PO3	Design/development of solutions: Design creative solutions for complex engineering problems and design /develop systems / components /processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required (WK5)
PO4	Conduct investigations of complex problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modeling, analysis & interpretation of data to provide valid conclusions (WK8)
PO5	Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modeling recognizing their limitations to solve complex engineering problems. (WK2 and WK6).
PO6	The Engineer and the world: Analyze and evaluate societal and environmental aspects while solving complex engineering for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).
PO7	Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws (WK9).
PO8	Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in divers/multidisciplinary teams.
PO9	Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.
PO10	Project Management & Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as member and leader in a team, and to manage projects and in multidisciplinary environments.
PO11	Life-Long Learning: Recognize the need for and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

B.Tech Civil Engineering Program Specific Outcomes (PSOs)

PSO1	Design, develop, fabricate and commission the electrical systems involving power generation, transmission, distribution and utilization.
PSO2	Focus on the components of electrical drives with its converter topologies for energy conversion, management and auditing in specific applications of industry and sustainable rural development.
PSO3	Gain hands-on competency and computing tool skills required for entry-level engineering positions.



ALUMNI SPEAKS

Voice That Inspire

Our alumni are our pride. Their achievements and words continue to motivate and guide the younger generation



Mr. K Venkata Ramana
M.Tech Structural Engineering
2022-24 Batch



Roll No:
227Y1D2004
Company:
Aurobindo Reality
Designation:
Civil Engineer

"Pursuing PG at MLRITM was a transformative experience that shaped my professional journey. The advanced curriculum, excellent faculty, and research-oriented environment helped me build strong technical and analytical skills. The continuous support and guidance from mentors motivated me to aim higher and achieve my career goals. I am grateful to MLRS for laying a strong foundation for my success."

Mr. M Akshay Kumar
M.Tech Structural Engineering
2023-25 Batch



Roll No:
237Y1D2001
Company:
ONYX
Designation:
Interior Site Supervisor

"My journey in the Civil Engineering Department at MLRITM has been highly enriching and transformative. The department provides a strong academic foundation supported by experienced faculty, practical exposure, and a positive learning environment. The hands-on training, project-based learning, and constant encouragement from faculty members have helped me develop both technical skills and confidence. I am grateful to be a part of a department that focuses on overall student development and prepares us for real-world challenges."

Ms. P Kavitha
M.Tech Structural Engineering
2021-23 Batch



Roll No:
217Y1D2012
Company:
Irrigation and CAD department
Designation:
Assistant engineer

"The M.Tech Structural Engineering program at MLRITM provided me with strong academic knowledge and practical exposure in structural analysis and design. The support from faculty members and project-oriented learning improved my technical and professional skills. The knowledge and confidence gained during the course continue to help me in my professional career."

Mr. Mohammed Vaseem
B.Tech Civil Engineering
2020-24 Batch



Roll No:
207Y1A0101
Company:
Adecco
Designation:
Engineer HDO

My journey at MLRITM as a postgraduate student has been incredibly enriching. The practical exposure, site visits, and project-based learning helped me understand the real-world applications of civil engineering. The department's constant encouragement and the campus environment built my confidence and leadership skills, which are helping me grow in my career.

Mr. Perumandla Deepak
B.Tech Civil Engineering
2019-23 Batch



Roll No:
197Y1A0105
Company:
Singareni Colonies
Designation:
Quality Engineer

"My experience in the Civil Engineering Department at MLRITM has been truly rewarding. The department provides a balanced blend of theoretical knowledge and practical exposure through labs, projects, and site visits. The continuous support and guidance from faculty members helped me strengthen my technical skills and problem-solving ability. The learning environment and opportunities provided have played a key role in shaping my career and confidence."

Mr. Shyam Sunder
B.Tech Civil Engineering
2021-25 Batch



Roll No:
217Y1A0119
Company:
Licensed Surveyor
Designation:
Licensed Surveyor

"The B.Tech Civil Engineering program at MLRITM enhanced my technical knowledge and practical understanding of civil engineering concepts. The continuous guidance from faculty members and supportive learning environment helped me improve my professional skills and confidence. The knowledge gained during the course is helping me perform effectively in my career."



STUDENTS CORNER

Ideas* Imagination*Innovation

A Glimpse of thoughts Creativity and technical perspectives from the students of Department of Civil Engineering

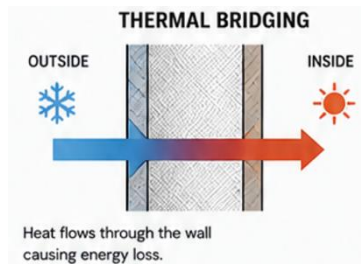
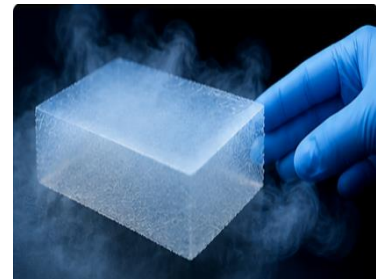


AEROGEL - THE NASA INNOVATION IN CONSTRUCTION

The demand for efficient insulation materials is becoming increasingly important in the construction industry. With the growing need for energy-efficient buildings, minimizing heat transfer through building components has become a major focus.

Heat transfer through walls occurs directly through the building envelope—whether it is masonry, block, or stud frame—to the internal surfaces such as drywall. This phenomenon is known as **thermal bridging**, which leads to significant energy loss and reduced thermal efficiency.

To overcome this challenge, advanced insulation materials are being developed. One such revolutionary material is **Aerogel**, originally developed by NASA for cryogenic insulation. Aerogel is considered one of the most effective thermal insulation materials due to its extremely low thermal conductivity and lightweight nature.



A U.S.-based innovation, Thermablok, has adapted aerogel technology by embedding it into a fiberglass matrix using a proprietary process. This modification allows aerogel to be effectively used in construction applications, particularly in insulating wall studs.

The use of aerogel-based insulation can significantly enhance the thermal performance of buildings. It can increase the overall wall R-value—a measure of thermal resistance—by more than **40 percent**, thereby improving energy efficiency and reducing heat loss.

In conclusion, aerogel represents a major advancement in construction materials, offering a sustainable and high-performance solution for modern buildings. Its application in civil engineering can play a vital role in developing energy-efficient and environmentally responsible infrastructure.

By 247Y1D2002-ANEGALLA TIRUPATHI

SUMMER STRUCTURES - POEM

The sun burns bright on concrete plains,
Steel expands in silent strains,
Roads that shimmer in the heat,
Test the strength beneath our feet.

Bridges breathe in thermal flow,
Expansion joints begin to show,
Structures speak in subtle ways,
Through summer's long and heated days.

Water fades from soil below,
Cracks appear where stresses grow,
Engineers observe with care,
Designing strength that all can bear.

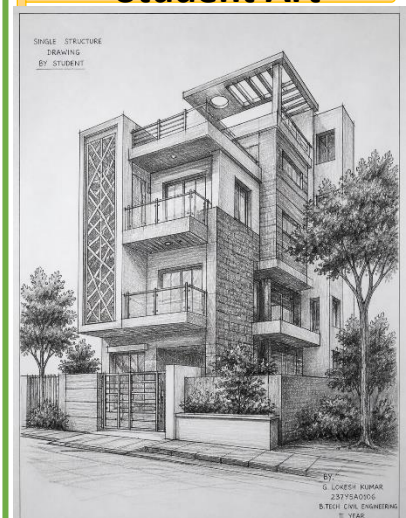
From curing concrete under sun,
To ensuring work is safely done,
Each degree the mercury climbs,
Challenges designs of modern times.

Yet through the heat, we rise and learn,
With knowledge gained at every turn,
To build with vision, firm and true,
For summers harsh and skies so blue.

For civil minds will always stand,
To shape, sustain, and guard the land,
Through heatwaves strong and seasons long,
Engineering keeps us strong.

By 247Y1A0104-P Akhila

Student Art



By 237Y5A0106-G Lokesh Kumar



CONCRETE MINDS

STUDENT CLUB ACTIVITIES

Building Ideas • Shaping Structures • Inspiring Innovation



STRUCTURAL EXCELLENCE IN ACTION

Truss Model Secures First Prize at STHĀPATYA 2026

The Civil Engineering students of MLRITM showcased their technical expertise and innovation by securing the **First Prize** in the **Truss Model Competition** held on **10th May 2026** as part of **STHĀPATYA – Annual Technical Fest**.

The winning team demonstrated exceptional understanding of structural behavior, load distribution, and stability through their meticulously designed truss model. The project reflected a perfect blend of theoretical knowledge and practical application, highlighting the importance of efficient material usage and structural optimization.



The model was evaluated based on criteria such as strength, design efficiency, innovation, and load-bearing capacity. The team's outstanding performance impressed the judges and stood out among numerous competitive entries.

This achievement not only reflects the students' dedication and technical skills but also emphasizes the department's commitment to promoting hands-on learning and innovation in civil engineering.

INNOVATION FOR SMART INFRASTRUCTURE

Smart Street Light System Proposed for Funding & Incubation

An innovative idea on a **Smart Street Light System** has been successfully submitted to **Research Heights** for funding and incubation support by the P **Charan Tej Govind (257Y5A0104)** II Year Student of the Civil Engineering Department.

The proposed system focuses on improving energy efficiency, sustainability, and smart urban infrastructure. It integrates advanced technologies such as automated sensors, energy-efficient LED lighting, and intelligent control mechanisms to optimize street lighting based on real-time conditions.



The system is designed to reduce energy consumption by adjusting light intensity according to traffic movement and environmental conditions. It also aims to enhance public safety, minimize operational costs, and support the development of smart cities.

This initiative reflects the students' commitment to innovation and their ability to address real-world challenges through engineering solutions. The submission to Research Heights marks a significant step towards transforming the concept into a practical, scalable solution.



CONCRETE MINDS

STUDENT CLUB ACTIVITIES

Building Ideas • Shaping Structures • Inspiring Innovation



COMMUNITY OUTREACH PROGRAMS

Engineering for Society • Sustainability • Service

The Department of Civil Engineering actively promotes **student outreach programs** that extend learning beyond classrooms and contribute to societal development. These initiatives reflect the department's commitment to sustainability, community service, and practical application of engineering knowledge.



Students regularly participate in awareness campaigns and field activities focused on **water conservation, environmental protection, and sustainable practices in rural areas**. Through village visits, they educate communities on efficient water usage, rainwater harvesting, and the importance of preserving natural resources.

As part of environmental initiatives, students also conduct **Zero Plastic awareness programs**, encouraging villagers to reduce plastic usage and adopt eco-friendly alternatives. These campaigns aim to create a cleaner and healthier environment while promoting responsible habits among rural communities.



In addition, the department organizes **training sessions for farmers on modern technologies such as drone applications in agriculture**. These sessions help farmers understand how drones can be used for crop monitoring, irrigation management, and efficient pesticide spraying, thereby improving productivity and reducing costs.



These outreach programs not only benefit society but also enhance students' practical knowledge, communication skills, and social responsibility. By engaging directly with communities, students gain real-world insights and develop a sense of commitment toward sustainable development.



CAMPUS CHRONICLES

events, experiences, and excellence

Where campus stories come alive through achievements and activities



A Celebration of Talent, Sportsmanship, and Innovation



The month of March 2026 was marked by vibrant energy and enthusiastic participation across the campus, as a series of academic and co-curricular events were successfully organized.

The Annual Sports and Games Competitions were conducted from 10th to 16th March 2026, providing students with a platform to showcase their physical abilities, teamwork, and sportsmanship. Various indoor and outdoor games witnessed active participation, fostering a spirit of unity and

healthy competition among students.

Adding to the excitement, the much-awaited Technical Fest was held on 16th March 2026, where students demonstrated their technical skills, creativity, and innovative ideas through various competitions and technical events. The fest served as a platform for knowledge exchange and practical learning.

The celebrations culminated with the grand Annual Day on 18th March 2026, which brought together students, faculty, and guests for a memorable evening. The event featured cultural performances, award ceremonies, and recognition of outstanding achievements, highlighting the all-round development of students.



These events collectively reflected the vibrant campus culture, encouraging students to excel not only in academics but also in extracurricular activities, thereby shaping confident and well-rounded individuals.



FACULTY CORNER

Guiding Minds* Inspiring Future Engineers

Mentoring, Motivating and Empowering



Our faculty members specialize in diverse domains of Civil Engineering and actively contribute to teaching, research, consultancy, industry projects and professional development. They participate in conferences, workshops, FDPs and publish research in reputed journals to keep students updated with emerging technologies and industry trends.

Student Mentoring

Faculty mentors guide students in academics, career planning, higher education, internships, placements and overall personality development through regular mentoring sessions.

Student Counselling & Support

Continuous counselling support is provided to help students manage academic stress, personal challenges and career-related concerns. We promote a positive learning environment and holistic well-being.

Academic Guidance

Faculty members conduct remedial classes, technical discussions and interactive learning sessions to strengthen conceptual understanding and improve academic performance.

Project Guidance & Innovation

We guide students in mini projects, major projects, research activities, technical paper presentations and innovation-based competitions to enhance creativity and problem-solving skills.

Career & Higher Education Support

Students receive guidance for placements, competitive examinations, higher education, entrepreneurship and skill development through expert interactions, workshops and training programmes.

Industry Interaction & Exposure

Industrial visits, expert talks, workshops and consultancy projects help students gain practical exposure and understand real-world challenges in civil engineering.

EXPERT LECTURE DELIVERED AT HITAM

Dr. V. Varalakshmi, Professor, Department of Civil Engineering, delivered a guest lecture to the students of Computer Science Engineering at HITAM on the topic “Optimization for Waste Collection Routing.”

The lecture was organized as part of the 10-Day Upskilling Program titled “Sustainability Through Data-Driven Decision Making”, conducted by HITAM in association with IIIT Hyderabad – iHub Data under the initiative “Upskilling Youth from Scheduled Tribe Communities.”

During the session, Dr. Varalakshmi explained the importance of sustainable waste management systems and the role of optimization techniques and data-driven approaches in improving waste collection efficiency. The lecture highlighted smart routing methods, environmental sustainability, resource management, and the application of technology in solving urban infrastructure challenges.



Showcasing Continuous Learning, Skill Enhancement, and Professional Development Initiatives



DEPARTMENT ACTIVITIES

events, experiences, and excellence

Beyond classrooms—experiences that shape future engineers



Jal Seva Adhyayan

A Jal Seva Abhiyan was successfully conducted in February 2026 by the Krishna Rao Team at Amudalavalasa, Srikakulam District, with the active participation of four students from the Department of Civil Engineering.



The program, supported by Jal Jeevan Mission, focused on creating awareness about safe drinking water, water conservation, and sustainable water management practices. The team actively interacted with the local community to highlight the importance of efficient water usage, rainwater harvesting, and maintaining hygiene in water consumption.

As part of the outreach, students explained simple and practical methods for conserving water resources and ensuring long-term sustainability. The initiative aimed to empower villagers with knowledge and encourage responsible utilization of water in their daily lives.

This program provided valuable field exposure to the students, enabling them to connect theoretical concepts with real-world challenges. It also helped in developing their communication skills, teamwork, and sense of social responsibility.

As part of the outreach, students explained simple and



INDUSTRY VISITS



RMC PLANT VISIT AT BOWRAMPET ON 23/01/2026



Nagarjuna Sagar Dam and Power station Visit on 20/02/2026



DEPARTMENT ACTIVITIES

events, experiences, and excellence

Beyond classrooms—experiences that shape future engineers



INTERNATIONAL CONNECTION

ACADEMIC INTERACTION & CULTURAL EXCHANGE PROGRAMME

*Bridging Cultures • Sharing Knowledge
• Building Global Connections*



An Academic Interaction and Cultural Exchange Programme was successfully organized by the International Relations Cell at Marri Laxman Reddy Institute of Technology and Management (MLRITM) from 20th February to 2nd March 2026.

The programme welcomed **eight** students from Japanese universities,

providing them with a platform to engage in academic discussions, explore advanced technologies, and experience Indian culture. The initiative aimed at strengthening global academic collaboration and promoting cross-cultural understanding.

The event was convened by **Dr. Vajja Varalakshmi**, with the support of coordinators **Dr. J. Suresh Goud**, **Dr. K. Sravanthi**, **Mr. K. Prakash**, and **Dr.**



Kalangi Chaitanya. The International Relations Cell meticulously planned the programme, ensuring smooth coordination of academic sessions, campus visits, accommodation, and cultural activities. During the programme, the visiting students actively participated in **technical discussions, academic interactions, and laboratory visits**. They explored state-of-the-art facilities such as the **Humanoid Robotics Lab, Drone Technology Lab, and AR/VR Laboratory**, gaining insights into emerging technologies and innovative research practices.



DEPARTMENT ACTIVITIES

events, experiences, and excellence

Beyond classrooms—experiences that shape future engineers



INTERNATIONAL CONNECTION

FACULTY EXCHANGE PROGRAMME: *Global Academic Collaboration in Action*

Dr. V. Varalakshmi, Professor, Department of Civil Engineering, participated in a **Faculty Exchange Programme** at **Suan Sunandha Rajabhat University, Bangkok**, from **11th to 13th February 2026**.



The visit aimed to strengthen international academic collaboration, enhance teaching–learning practices, and promote research interactions between institutions. During the three-day programme, Dr. Varalakshmi engaged in meetings with the Office of International Affairs and faculty members, participated in technical discussions, and explored academic infrastructure.

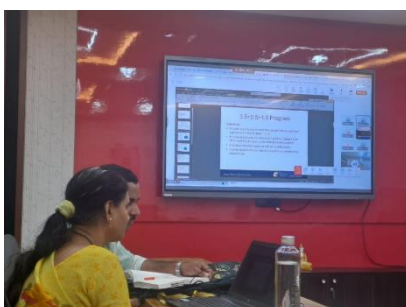
Key highlights of the visit included interactions with engineering faculty, visits to advanced laboratories such as **Structural, Geotechnical, Environmental, and Surveying Labs**, and discussions on future research collaborations. A significant moment was the meeting with **Asst. Prof. Dr. Duangporn Sangthong, President of the University**, focusing on academic excellence and global partnerships.



The programme concluded with a feedback session and discussions on future academic exchange initiatives, marking a meaningful step towards strengthening international cooperation and collaborative learning.

STUDENT INTERACTION WITH UTC MEMBERS

Exploring Global Opportunities through Virtual Engagement



An online awareness session was organized through **Zoom on 18th April 2026** for students of Civil Engineering to introduce global academic opportunities offered by **University of Tennessee at Chattanooga (UTC)**.

The session focused on **student exchange programmes, higher education pathways, and international exposure**. UTC members presented details about the **Dual Postgraduate (PG) Programme for Structural Engineering students**, along with **internship opportunities for B.Tech Civil Engineering students**. Students gained insights into admission procedures, academic benefits, and career prospects associated with these programmes. The session was interactive, allowing students to clarify their queries and understand global opportunities more effectively.



DEPARTMENT ACTIVITIES

events, experiences, and excellence

Beyond classrooms—experiences that shape future engineers



GUEST LECTURES/WORKSHOPS

Addressing Environmental Challenges for a Sustainable Future

The Department of Civil Engineering organized a guest lecture on **22nd April 2026 at 10:00 AM** in the Auditorium on the theme of **Climate Change and Environmental Sustainability**. The session was delivered by **Shri B.V. Subba Rao**, Founder of SynTerra and an expert in **SME-IWRM, Climate Change, and Urban Lake Ecosystems**.



Smart Structures and Advanced Construction Techniques



The Department of Civil Engineering organized a **Technical Talk by Industry Expert** on **11th February 2026** at **Aroha AV Center, MLRITM**. The session was delivered by **Mr. Sampangi Vijay Kumar**, Co-Founder of **Yuktha Construction & Yuktha Earth Movers Machinery Works**.

Engineering Sustainable for the Global Sustainability Transition

The Department of Civil Engineering organized a guest lecture on **“Engineering Sustainability for the Global Sustainability Transition”** from **09th to 14th March 2026** at the **AROHA AV Centre**.

The session was delivered by **Dr.A Ashok Vardhan, Mahendra University** who shared valuable insights on sustainable engineering practices, environmental responsibility, and the role of engineers in achieving global sustainability goals. The lecture emphasized the importance of green technologies, resource conservation, sustainable infrastructure development, and innovative engineering solutions for a better future.





DEPARTMENT ACTIVITIES

events, experiences, and excellence

Beyond classrooms—experiences that shape future engineers



RESEARCH AND CONSULTANCY

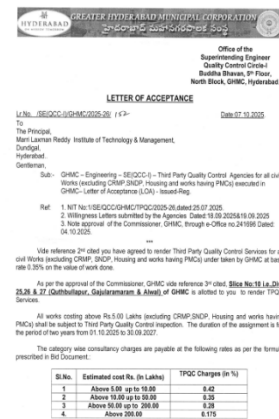
“Engineering Expertise Supporting Quality Urban Infrastructure”

The Department of Civil Engineering is actively involved in **GHMC Third Party Quality Control (TPQC) Consultancy Works**, contributing towards the improvement and monitoring of urban infrastructure quality.

As part of the consultancy services, faculty members and technical experts from the department conduct **field inspections of road construction works** undertaken by the Greater Hyderabad Municipal Corporation (GHMC). The inspections focus on evaluating construction quality, material standards, workmanship, and compliance with approved engineering specifications.

During the quality assessment process, the team performs detailed site verification and technical evaluation to ensure that the road works meet safety and durability standards. Based on the inspections and observations, comprehensive technical reports are prepared and submitted to GHMC.

This consultancy activity provides practical exposure to modern quality control practices and reflects the department’s commitment to professional expertise, industry collaboration, and societal development through engineering services.



Innovative Student Projects Converted into Patents

S.No	Patent Title	Guide Name	Student Name with Roll Number
1	A Smart Foundation System for Building on Expansive Black Cotton Soil Using Real-Time Soil Swelling Data and Adaptive Load Distribution Mechanism	Dr. DSVSMRK Chekravarty, Mr. T. Jayakrishna, Ch. Revansiddappa	Gaddala Akhila (227Y1A0101), Samad Alam (227Y1A0106), Korupala Gnanadeepika (237Y5A0102), N. Srisailam (237Y5A0110)
2	A Sustainable Concrete Composition and Method of Preparation Using GGBS and Recycled LDPE	Ms. M. Nanditha, Mr. N. Krishnarao	M. Vamshi Vardhan Reddy (227Y1A0108), Pasula Vinod Kumar (227Y1A0109), Metla Ramprasad (237Y5A0106), Gunti Sai (237Y5A0108)
3	Process for Producing High Strength Sustainable Concrete Using Dual Activated Paper Sludge Ash and Ultra Fine Coal Powder	Mr. T. Jayakrishna, Dr. K. Murali, Ms. Ch. Rajeshwari	Guvvaleghi Divya (237Y5A0101), Polepalli Nisse Priya (237Y5A0103), Baireneni Raveena (237Y5A0107), Nadhari Venuprasad (237Y5A0112)
4	High Strength Self-Curing M40 Grade Concrete Composition Incorporating Polyethylene Glycol 400 and GGBS	Dr. A. Ramakanth, Mr. T. Prasad, Ms. M. Nanditha, Mr. P. Suresh	Bantu Omsai (237Y1A0104), A. Pavankumar (237Y1A0105), G. Shivsa Shankar (237Y1A0109), Gone Vijay (237Y1A0113)
5	Accident Detection and Analysis System Based on Collision Point Identification	Dr. V. Varalakshmi, Mrs. J. Seetunya, Dr. G. Dharma Teja	K. Deepak (227Y1A0103), M. Ganesh Reddy (227Y1A0104), Adepu Thaanish Raj (227Y1A0110)
6	Recycled PET Flake Reinforced Concrete and Method for Improving Strength Characteristics	Mrs. T. Neha, Ms. Ch. Shivani, Mrs. J. Seetunya	Jangala Praneeth (227Y1A0105), Satyam Kumar Panday (227Y1A0107), H. Ugender Rao (237Y5A0111)



DEPARTMENT ACTIVITIES

events, experiences, and excellence

Beyond classrooms—experiences that
shape future engineers



INDUSTRY CONNECT

MoUs WITH ULTRATECH AND PALLE SRUJANA

Enhancing Industry Exposure, Innovation, and Community Engagement

The Department of Civil Engineering has signed Memorandums of Understanding (MoUs) with UltraTech Cement and Palle Srujana to promote industry interaction, innovation, research, and experiential learning opportunities for students.

The collaboration with UltraTech Cement focuses on providing students with exposure to modern construction materials, sustainable construction practices, industrial visits, internships, and technical training programmes. The partnership aims to strengthen practical knowledge and bridge the gap between academics and industry requirements.

The MoU with Palle Srujana encourages innovation, rural development, and sustainable engineering solutions. Through this collaboration, students gain opportunities to participate in community-oriented projects, grassroots innovations, and awareness programmes that address real-world societal challenges.

These collaborations reflect the department's commitment to creating a strong learning ecosystem that integrates technical knowledge, innovation, and social responsibility.





DEPARTMENT ACTIVITIES

events, experiences, and excellence

Beyond classrooms—experiences that shape future engineers



infrastructure

Driving Innovation, Sustainability, and Advanced Learning

The Department of Civil Engineering has established specialized Centres of Excellence to promote research, innovation, industry interaction, and experiential learning in emerging areas of civil engineering.

Centre of Excellence for Sustainable Construction Practices Materials

The Centre focuses on sustainable infrastructure development through the study of eco-friendly materials, green building technologies, waste utilization, and modern construction practices. It encourages students to explore innovative and environmentally responsible engineering solutions through research, workshops, consultancy, and industry collaboration.



AR/VR Centre of Excellence

The AR/VR Centre provides students with exposure to advanced visualization technologies such as Augmented Reality and Virtual Reality for immersive learning experiences. The Centre supports virtual simulations, structural visualization, smart construction practices, and interactive learning to enhance technical understanding and innovation.



These Centres of Excellence strengthen practical learning and prepare students to meet future challenges in the construction and infrastructure industry.



DEPARTMENT ACTIVITIES

events, experiences, and excellence

Beyond classrooms—experiences that shape future engineers



GALLERY



Industry Interaction & Lab Visit



Computer Laboratory



Student Team



English Language Day



NSS Awareness Program



Field Visit / Water Resource Study

BUILDING COMPETENCE. INSPIRING FUTURES.



INDUSTRY INTERACTION

Collaborating with industry experts and organizations for practical insights and real-world exposure.



ADVANCED LEARNING

Hands-on training through modern laboratories, workshops, and advanced learning tools.



STUDENT ENGAGEMENT

Active participation in co-curricular, technical, and social initiatives for holistic development.



SKILL DEVELOPMENT

Building technical, soft, and professional skills for academic and career excellence.



Innovating Today,
Building a Better Tomorrow!

PLACEMENTS

— YOUR CAREER. OUR COMMITMENT. —

The Department of Civil Engineering strives to provide excellent career opportunities to our students. Our strong industry connect, quality education, and continuous training ensure overall development and successful careers.



OUR TOP RECRUITERS



BHARAT ENGINEERING
CONSTRUCTION COMPANY PRIVATE LIMITED



GAYATRI
GAYATRI PROJECTS LIMITED



STRONG INDUSTRY CONNECT
Building relationships with leading companies across core sectors.



EXCELLENT PLACEMENT SUPPORT
Training, internships, soft skills, aptitude programs and placement preparation for career success.



BRIGHT CAREER OPPORTUNITIES
Diverse job roles in reputed organizations with attractive packages and growth.



WE BUILD ENGINEERS. WE BUILD FUTURES.
Strong Foundation. Bright Careers.