

RANGHAN

Madanapalle
Institute of
Technology & Science
(UGC Autonomous Institute)

EDITED BY Y. Anusha, B.Govardhan Naik



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Architectural Modelling Using REVIT



A five-day Architectural Modelling Using Revit training program was successfully conducted at Madanapalle Institute of Technology and Science (MITS), Andhra Pradesh, from August 10 to August 14, 2023. Organized by the Skill Development Cell in association with the Department of Civil Engineering, the program aimed to enhance students' Building Information Modeling (BIM) skills. A total of 48 participants, including 45 students and 3 faculty members, took part in this intensive handson training.

The training, led by Mr. Vadde Bramhesh, Executive Technical Programmer, APSSDC, covered a wide range of topics, from BIM fundamentals and Revit's interface to 3D/2D architectural design, wall and roof modeling, rendering, and walkthroughs. Participants learned how to create construction plans, coordinate projects, and prepare for core industry jobs using Revit. The event featured interactive sessions, where students practiced drawing tools, explored annotation techniques, and worked on real-world design projects.

By the end of the program, students had gained practical expertise in architectural modeling and digital design, making them more competitive in the job market. With the rise of digital construction technologies, such skill-based training programs are becoming essential in shaping industry-ready professionals. The event concluded with a vote of thanks, acknowledging the contributions of faculty members and organizers who made the program a success.

Supported POs: PO 1, PO 5 SDG: 4,8,9

Edited By

Faculty coordinator: Dr. Priyamnath Bhowmik

Student Coordinators: Y. Anusha, B. Govardhan Naik

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The Department of Civil Engineering at Madanapalle Institute of Technology and Science (MITS), under the ASCE MITS Student Chapter, organized a one-day industrial visit to the Chipili Check Dam leveling site on August 18, 2023. A total of 65 students from the 2nd, 3rd, and final years, accompanied by faculty members Dr. Priyam Nath Bhowmik, Mr. B. Veeresh, and Mrs. K. Anitha, participated in this hands-on learning experience.

The visit provided students with practical exposure to surveying techniques used in real-world projects. Led by Assistant Executive Engineer Y. Vijay Bhaskar and Senior Surveyor N. Sampath from NCC Projects, the session introduced students to earthwork excavation, elevation level marking using Differential Global Positioning System (DGPS), and advanced surveying methods. The DGPS system, which enhances GPS accuracy from 15 meters to as precise as 10 cm, was demonstrated in-depth, allowing students to understand its role in civil engineering projects like railways, highways, dams, and massive infrastructure development.

This visit bridged the gap between theoretical knowledge and field application, reinforcing the importance of surveying in construction and infrastructure development. The event concluded at 4:30 PM with a vote of thanks to the engineers and faculty for their valuable contributions in making this experience insightful and impactful.

Supported POs: PO 4 SDG:4,8

Engineer's Day

The MITS Civil Engineering Society, in association with ASCE (American Society of Civil Engineers) Indian Section – Southern Region, organized Engineer's Day on September 15, 2023, at Madanapalle Institute of Technology & Science (MITS). The event paid tribute to Sir Mokshagundam Visvesvaraya, India's legendary engineer, while also spreading awareness about the 17 Sustainable Development Goals (SDGs).

The event commenced with a lamp-lighting ceremony and garlanding of Sir Visvesvaraya's portrait, followed by inspiring speeches from dignitaries, including Dr. C.



Yuvaraj (Principal, MITS), Dr. P. Ramanathan (Vice Principal, Academics), and Dr. Dipankar Roy (HoD, Civil Engineering). Over three days leading up to Engineer's Day, students participated in competitions showcasing innovation and technical expertise:

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- September 12 Ideas to Achieve SDGs: Students pitched creative solutions to address global challenges.
- September 13 Technical Talk: Participants presented insights on engineering topics through PPTs.
- September 14 Technical Quiz: Teams competed in a knowledge battle to test their engineering acumen.

The grand event concluded with a prize distribution ceremony, celebrating the winners and participants. Engineer's Day at MITS not only honored engineering excellence but also inspired students to innovate for a sustainable future.

Supported POs: PO 2, PO 3, PO 4, PO 5, PO 6, PO 7, PO 8, PO 9 SDG:4,8,9,11

Inclination of Construction Industries Towards Geospatial Technology

Madanapalle Institute of Technology & Science (MITS) hosted a National Webinar on "Inclination of Construction Industries Towards Geospatial Technology" on September 20, 2023. Organized by the Department of Civil Engineering and the ASCE Student Chapter, in collaboration with the Entrepreneurship Development Cell, the event aimed to educate students on the growing role of geospatial technology in construction and infrastructure development.

With 110 participants from the 2nd, 3rd, and final-

year Civil Engineering batches, the session featured Dr. V. Rajesh Kumar, Head of EDRC-Digital, L&T Chennai, as the keynote speaker. He emphasized the importance of GIS, Remote Sensing (RS), and GPS in modern engineering, explaining how these technologies enhance precision in surveying, mapping, and construction planning. Dr. Kumar also highlighted career opportunities at L&T and the increasing demand for geospatial skills in the industry.



Faculty members Dr. K. Arul Kumar, Dr. Dipankar Roy, and Dr. Prem Knowles addressed students, discussing innovation, entrepreneurship, and job prospects for civil engineers. The interactive session allowed students to engage with the speaker, gaining real-world insights into construction practices at L&T.

The event concluded with a vote of thanks by Mr. Vinothkumar R, Program Coordinator, followed by a group photo session. The Entrepreneurship Development Cell distributed

participation certificates, recognizing students' enthusiasm for exploring cutting-edge technology in civil engineering.

Supported POs: PO 7 SDG: 4,9,11

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Guest Lecture: Bridging Theory and Practice in Civil

Engineering

On **22nd September 2023**, the department organized an insightful guest lecture titled *Bridging the Gap Between Theory and Practice in Civil Engineering*. The session was conducted by **Dr. Teja Munaga**, Director of Engineering at V Geotech Expert Pvt. Ltd. He emphasized the importance of integrating theoretical concepts with real-world applications, offering students a deeper understanding of modern construction techniques and case studies. This interactive session allowed students to engage in meaningful discussions and gain practical knowledge.

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Co-Patron Dr.C. Yuvarai Ph.D. in Geotechnical Engineering (NIT Warangal)

Co-Patron Dr.C. Yuvarai Engineering (NIT Warangal)

Co-Patron Dr.C. Yuvarai Engineering (NIT Warangal)

Co-Patron Dr.C. Yuvarai Excustive Director of Engineering Orpharmane.

Student Co-ordinator Dr. Dippankar Roy

Ausstant Professor, Civil Engineering Department.

Chief Co-ordinator Dr. Dippankar Roy

Chief Co-ordinator Dr. Dippankar Chi

SDG :4,8,12

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

Supported POs: PO 7, PO 8, PO 10 & PO12

Guest Lecture: Emerging Technologies in Civil Engineering



Held on 25th September 2023, this session, conducted by Dr. N. Vetrivel, an alumnus of IIT Madras and an expert hydraulics, shed light groundbreaking advancements in civil engineering. Topics covered included technologies, Building smart Information Modeling (BIM), Artificial Intelligence, and Augmented Reality in construction. The lecture also explored sustainable building materials such as 3D-printed bricks, carbon fiber, and laminated timber, as well as innovative techniques like **Tunnel**

Machines and Pile Testing Innovations. Students found this session highly engaging, as it provided them with a glimpse into the future of civil engineering and its transformative impact on the industry.

Supported POs: PO 5 SDG :4,8,9,11

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Alumni Interaction: Career Prospects for Civil Engineering Graduates



On 1st November 2023, the department hosted an alumni interaction session featuring Mr. Sai Puneeth Royal, a distinguished alumnus of MITS. The session focused on career prospects for civil engineering graduates, guiding students on strategies for GATE and IES exam preparation, career opportunities in government and private sectors, and insights into industry trends and essential skill

development. Students actively participated in discussions, sharing their concerns and aspirations. One student remarked, "This session was a game-changer! Learning from alumni who walked the same path as us gave us clarity on career options."

Supported POs: PO 7, PO 8, PO 10 & PO 12 SDG :4

Alumni Interaction: Career Guidance with Mr. Shakeer Ahammad

Another Alumni Interaction session was held, featuring Mr. Shakeer Ahammad, an esteemed alumnus of the Civil Engineering Department. He provided invaluable career guidance, emphasizing the importance of preparation for GATE, IES, and various government examinations. The session was interactive, allowing students to seek advice on career planning, professional certifications, and opportunities in public and private sectors. Students found the discussion highly beneficial as they gained clarity on different career paths and strategies for competitive exams.



Supported POs: PO 7, PO 8, PO 10 & PO 12 SDG: 4

Guest Lecture on "Traffic Flow Models for Urban Roads Under Indian Traffic Condition"

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The Builders Club under ASCE MITS Student Chapter organized an insightful guest lecture on November 16, 2023, at the Madanapalle Institute of Technology & Science (MITS), focusing on two critical urban issues: traffic flow modeling and wastewater treatment. The session featured expert talks by Dr. Narasamma Nippatlapalli and Dr. Gowri Asaithambi from IIT Tirupati. Dr. Nippatlapalli discussed the sources environmental impacts of wastewater, emphasizing emerging contaminants

sustainable treatment techniques like electrochemical oxidation. She also highlighted findings from the Central Pollution Control Board Report (2021) and urged the need for responsible water conservation. Dr. Asaithambi delved into traffic flow models for Indian roads, explaining simulation techniques for both homogeneous and mixed traffic and exploring future research directions in intelligent transportation systems. The event concluded with an interactive Q&A session, leaving students with valuable insights into sustainable urban planning and infrastructure solutions.

Supported POs: PO 2, PO 4, PO 5, PO 7, PO 12 SDG :4,8,11

Industrial Visit to Krishnapatnam Port, Andhra Pradesh

The **MITS** Industry-Institute Interaction Cell (IIIC), collaboration with the ASCE Student Chapter and the Civil Department, organized an industrial visit to Krishnapatnam Port on November 20, 2023. A total of 102 civil engineering students from MITS, accompanied by faculty members, explored the Adani Wilmar Oil Factory and Warehouse, the Adani Skill Development Centre, and various operational sections of the port. The visit, part of Project



UDAAN, aimed to give students real-world exposure to large-scale civil engineering projects. Led by Mr. Kalaiva Mahesh, Project Officer at UDAAN Foundation, and Dr. Swapneel Jaiswal, Senior Assistant Professor, students gained valuable insights into port infrastructure, ship loading and unloading operations, and engineering collaborations across disciplines. The visit emphasized the importance of professional conduct, teamwork, and technical expertise in executing large-scale infrastructure projects. The interactive experience allowed students to bridge the gap between theory and practice, reinforcing their understanding of port engineering and logistics.

Supported POs: PO 4 SDG:4,8

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National Pollution Control Day



The ASCE MITS Student Chapter, in collaboration with the Institution's Innovation Council (IIC), organized National Pollution Control Day December 2, 2023, at the Madanapalle Institute of Technology & Science (MITS). The event aimed to educate students about pollution control measures, environmental awareness, and pay tribute to the victims of the Bhopal Gas Tragedy. Dignitaries including Dr. P. Ramanathan, Dr. Dipankar Roy, Dr. K. Arul Kumar, and Mrs.

U. Vijaya Laxmi addressed the students, discussing various forms of pollution and the importance of sustainable solutions. Speakers emphasized responsible environmental practices and innovative ideas for a pollution-free future, with discussions on air, water, and noise pollution control measures. The event successfully instilled a sense of responsibility in students, encouraging them to adopt sustainable approaches in their daily lives.

Supported POs: PO 6, PO 7, PO 10 SDG: 6,8,3,11,13

World Soil Day

The ASCE MITS Student Chapter organized World Soil Day December 5, 2023, at Madanapalle Institute of Technology & Science (MITS) to raise awareness about the importance health of soil sustainable soil management. event, led by Dr. P. Ramanathan, Dr. Dipankar Roy, and Mrs. Kandukuri Anitha, emphasized the critical role of soil in food security, biodiversity and climate change conservation, mitigation. Discussions highlighted



how soil is more than just a foundation for structures—it is a living, dynamic resource essential for sustaining life. Speakers addressed threats such as erosion, pollution, and nutrient depletion while advocating for sustainable soil practices. The session inspired students to adopt responsible soil management strategies and recognize their role in environmental conservation. Through interdisciplinary learning, the event reinforced the need for global cooperation in tackling soil degradation.

Supported POs: PO 6, PO 7, PO 10 SDG:6,8,11,13

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Newsletter: Guest Lecture on Quality Control & Management in



Construction

Department The of Civil Engineering at MITS, in collaboration with the Builder's Club, organized a guest lecture on "Understanding Quality

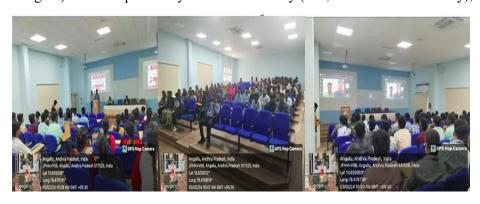
Control and Quality Management in Construction Activities" on February 2, 2024. The session, held in hybrid mode, was led by Dr. B. S. C. Vijay Kumar, Deputy Engineer at Kadiri and Madanapalle Municipality. The event was attended by 95 students and faculty members, emphasizing the significance of quality materials and construction techniques. Dr. Vijay Kumar highlighted best practices for ensuring structural integrity and addressed queries from participants. The session successfully fostered research curiosity among students, equipping them with valuable insights into modern construction standards. The event concluded with a vote of thanks by student coordinator N. Varshini. The department extends gratitude to MITS management and the Student Activity Center (SAC) for their unwavering support in making the event a success.

Supported POs: PO 6, PO 7, PO 10 SDG:4,8,9,12

Newsletter: Alumni Guest Lecture on Higher Education Abroad

The Department of Civil Engineering at MITS, in collaboration with the Builders Club, successfully organized an Alumni Guest Lecture titled "The Path of Higher Education Abroad" on February 3, 2024. The event featured insightful talks by alumni Manoj Devarakonda (MS, University of Texas at Arlington) and Manipal Reddy Nallathimmireddy (MS, Texas Tech University),

shared who their experiences and guidance on pursuing studies higher overseas. The session covered essential topics such selection, university scholarship opportunities, visa procedures, and



academic expectations for MS students. Held in a hybrid mode, the event attracted 93 participants and saw engaging discussions, with students gaining valuable knowledge on career pathways and skill development. The event was enriched by the support of the MITS management, faculty, and the Student Activity Center (SAC). The session concluded with an interactive Q&A, followed by a vote of thanks from the Builders Club. The event was a resounding success, inspiring students to explore global education opportunities.

Supported POs: PO 7, PO 8, PO 10, PO 12 SDG :4,8

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Newsletter on Industrial Visit to Lepakshi Temple



marvel of Vijayanagara architecture, provided an excellent learning experience with its intricate carvings, unsupported hanging pillar, and structural design principles. Dr. Swapneel Jaiswal explained various architectural philosophies, emphasizing the theoretical concepts involved in designing historical structures. The visit was highly interactive, offering students insights into construction methods and their relevance in modern civil engineering. The day concluded with students returning to MITS after an

The Department of Civil Engineering at MITS, in collaboration with the Industry-Institute Interaction Cell, organized an industrial visit to Lepakshi Temple on March 2, 2024. A total of 110 students from the II and III-year civil engineering programs participated in this visit, guided by faculty members Dr. Swapneel Jaiswal and Dr. Sudheer Kumar Y. The primary objective of this visit was to enhance students' understanding of ancient architectural principles, space planning, and construction techniques. Lepakshi Temple, a 16th-century



enriching educational experience. The Civil Engineering Department extends heartfelt gratitude to the management, faculty, and students for their support in making this visit successful.

Supported POs: PO 4 SDG:4

Newsletter - World Engineering Day 2024 at MITS



Dipankar Roy, and **Mr. B. Veeresh**, graced the occasion and shared valuable insights. Hosted by **Saif Ali Khan**, a third-year Civil Engineering student, the session featured speeches emphasizing engineering's impact on society. With over

The Department of Civil Engineering at Madanapalle Institute of Technology & Science (MITS) successfully organized World Engineering Day 2024 on March 4, 2024. The event, held in Seminar Hall - A, aimed to highlight the crucial role of engineers in promoting sustainable development. Esteemed dignitaries, including Dr. P. Ramanathan, Dr. A. V. Pavan Kumar, Dr.



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100 students and faculty members in attendance, the event fostered awareness and inspiration. The management of MITS extended its full support, ensuring a successful and engaging celebration.

Supported POs: PO 6, PO 7& PO 10 SDG: 4,3

International Day of Action for Rivers (March 14, 2024)

In collaboration with ASCE MITS Student Chapter, the department observed the International Day of Action for Rivers, emphasizing the theme "Water for All." The event focused on the importance of free-flowing rivers, water conservation, and sustainable river management. Students actively participated in discussions, shared case studies, and presented innovative ideas on tackling water scarcity. A key takeaway was the call to action for preserving rivers across national borders.



Supported POs: PO 6, PO 7 & PO 10 SDG:4,3,6

World Water Day 2024 – "Water for Peace" (March 22, 2024)

Under the guidance of **IIIC**, **NCC**, **and NSS**, the department organized *World Water Day* to spread awareness on freshwater conservation and its role in global peace. The event featured:

• **Site Visit:** Students participated in a **water body cleaning initiative** in the outskirts of Madanapalle, promoting sustainable water management.



Expert Talks: Faculty and guest speakers discussed the significance of sustainable water resource management, water-related conflicts, and conservation strategies.
 The event concluded with a student pledge to use water judiciously and contribute to a sustainable future.

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Supported POs :PO 6, PO 7, PO 10 SDG :3,6,7,8,12,13,14

Guest Lecture: Thermal Analysis in Building (April 19, 2024)



This virtual session, conducted by **Dr.** Jayakeerti Muralidharan (Building Physics Engineer, UK), provided insights into heat flow, energy consumption, and indoor quality in buildings. Students learned about thermal analysis techniques, software tools, and energy-efficient design strategies to optimize building performance. This session emphasized the **growing importance** sustainable construction practices in reducing environmental impact.

Supported POs: PO 1, PO 2, PO 4, PO 5 & PO 12 SDG: 4,7,12

Webinar: Application of IoT in Civil Engineering (April 23, 2024)



Organized in collaboration with ASCE INDIA Section Southern Region and DSoI EduConnect, this webinar, led by Mr. Bharani Iyengar (IoT Specialist, UK), explored the role of IoT in civil engineering. Key topics included:

• Building automation and smart infrastructure

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- Challenges and opportunities in IoT adoption
 - With 145+ participants, including professionals, educators, and students from various institutions, this session showcased the transformative potential of IoT in modern infrastructure development.
- IoT-enabled transportation and structural monitorin



Supported POs: PO 1,PO 5 SDG:4

The Department of Civil Engineering MITS. Madanapalle, collaboration with the Research & Development Cell, is organizing an insightful Research Talk on June **28, 2024**, at *Seminar Hall-B* from 2:00 PM to 5:00 PM. The session features Dr. Sonu Kumar Gupta, Assistant Professor, who will discuss sustainable polymeric composites for building technology. green Alongside, Mr. B. Govardhan Naik, a final-year student, will present on the incorporation of glass waste into concrete. This event aims to foster



innovation and sustainability in civil engineering. The session is guided by esteemed faculty and student coordinators, ensuring an engaging and informative discussion.

Supported POs: PO 4 SDG:4

The MITS ASCE Student Chapter, in collaboration with the MITS NSS *Unit*, is organizing a special event on World Environmental Day, celebrated on June 5, 2024. The event focuses on Land Restoration, Drought Desertification, and Resilience, aiming to promote environmental awareness and sustainability. Guided by distinguished faculty members and coordinators, this initiative encourages students to actively participate in eco-friendly practices. esteemed With



leadership and expert insights, the event will inspire innovative solutions for a greener future.

Supported POs: PO 6, PO 7,PO 10 SDG :3,13,15

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The farewell event for the 2020-2024 batch at Madanapalle Institute of Technology & Science (MITS) was a heartfelt gathering organized by the MITS ASCE Student Chapter and the Department of Civil Engineering. Held on May 18, 2024, from 10:00 AM to 5:00 PM, the event was a memorable occasion filled with emotions, celebrations, and gratitude. The 2nd and 3rd-year civil engineering students came together to bid farewell to their graduating seniors, acknowledging their contributions and achievements. The event featured vibrant decorations, music, and various engaging activities, making it a joyous send-off for the outgoing batch as they embark on their future endeavors.



Supported POs: PO 6, PO 7, PO 10

The CITA 2K24 event, organized by the Department of Civil Engineering at Madanapalle Institute of Technology & Science (MITS), is a prestigious one-day national-level technical symposium. This event serves as a platform for students, researchers, and professionals to exchange ideas and advancements in the field of civil engineering. With the theme "A Step Towards Viksit Bharat," the symposium aims to

innovation and technological progress in infrastructure and construction. The chief guest for this event is C. R. Superintending Engineer (WRD), Madanapalle, who will be sharing his expertise and insights with participants. The event will take place on May 3, 2024, at Seminar Hall - B, featuring interactive sessions, technical discussions, and knowledge-sharing opportunities. The symposium is supported by distinguished patrons, faculty coordinators, and student volunteers who have worked tirelessly to make this event a success. CITA 2K24 is not



just a gathering but a movement towards empowering the future of civil engineering with sustainable and innovative solutions.

Supported POs: PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9 SDG:4,1,3

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