



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

Madanapalle-517325, Annamayya Dist., Andhra Pradesh, India.

MITS DEEMED TO BE UNIVERSITY

(Declared under section 3 of UGC Act, 1956 by Govt. of India - MoE)



DEPARTMENT OF CIVIL ENGINEERING

AY: 2025 – 2026

A Report on

SURVEY CAMP

Organized by

Builders Club

Under the aegis of

ASCE MITS Student Chapter & SAC

on

15/ 11 / 2025



SURVEY CAMP 2025

Organized By: Builders Club under the aegis of ASCE MITS Student Chapter, Department of Civil Engineering & SAC

Chief-Patron Dr. N. Vijaya Bhaskar Choudary Founder & Chancellor	Patron Mrs. N. Keerthi Executive Director	Program Chair Dr. C. Yuvraaj Vice Chancellor (I/c)	Co-Chair Dr. P. Ramanathan, Principal		
Chief Coordinator Dr. Dipankar Roy, Professor Dean-School of Engineering & ASCE Faculty Advisor	Chief Co Coordinator Dr. Vijayakumar, N Asst. Professor, Hod of Civil	SAC Coordinator Dr. G. Reddy Hemantha Asst. Professor, ECE	Faculty Coordinators Mrs. Kandukuri Anitha Dr. Imran Kuttagola Asst. Professors, Dept. of Civil	Faculty Co-Coordinator Dr. Sudheer Kumar Y Asso. Professor, Dept. of Civil	Student Coordinators N. Radiya & V. Shivani ASCE Student Chapter & Builders Club

10:00 pm - 1:00 am
15th November 2025
Barlapally, Madanapalle

Report Submitted by: Dr. Imran Kuttagola, Assistant Professor, Department of Civil Engineering, Madanapalle Institute of Technology & Science.

Faculty Coordinators:

1. Mrs. Kandukuri Anitha, Assistant Professor, Department of Civil Engineering
2. Dr. Imran Kuttagola, Builders Club Coordinator, Assistant Professor, Department of Civil Engineering
3. Dr. Sudheer Kumar Y, Associate Professor, Department of Civil Engineering

Venue: Barlapally, Madanapalle

Time: 10:00 am to 1:00 pm

Mode of Conduct: Offline.

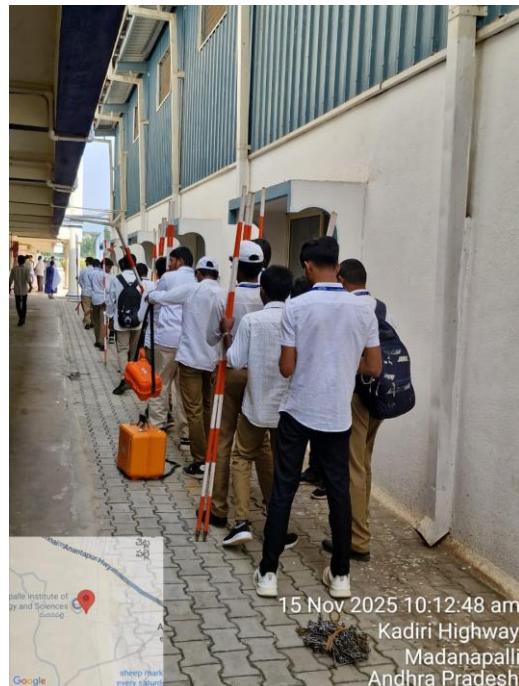
Attendees Count: 60 students

Objective of the Program

- To provide practical training to students in handling and operating the Total Station instrument in a real field environment.
- To enable students to perform field tasks such as data collection, topographic surveying,

and recording field observations accurately.

- To develop students' skills in teamwork and coordination during fieldwork activities.
- To enhance problem-solving abilities by exposing students to real-time challenges faced during Total Station surveying.
- To bridge the gap between theory and practice, improving their confidence and competency for future civil engineering projects.



Event details:

The Builders Club, under the aegis of the ASCE MITS Student Chapter, Department of Civil Engineering and SAC, organized a Survey Camp on 15th November 2025 from 10:00 AM to 1:00 PM at the field location near Barlapalle, Madanapalle. The event was conducted with the aim of providing practical exposure to Total Station surveying and enhancing students' understanding of field-based survey operations. During the camp, the working principles, setup procedures, and field applications of the Total Station were clearly explained and demonstrated by **Dr. Sudheer Kumar Y** and **Mrs. Kandukuri Anitha**, enabling students to gain hands-on experience and better insight into modern surveying techniques.



Outcomes of the Event

1. Students gained hands-on experience in operating the Total Station, including instrument setup, levelling, and field observations.
2. Students learned how to collect field data accurately, including recording coordinates and topographic details using the Total Station.
3. Students developed skills in teamwork and coordination, as the tasks required collaborative effort in field operations.
4. Real-time problem-solving skills were strengthened, as students encountered and addressed common field challenges during the survey.
5. Participants became familiar with data handling and interpretation, enabling them to relate practical survey data to classroom concepts.
6. Overall confidence and competence increased, preparing students for advanced surveying tasks and future professional fieldwork.



Program Outcomes (POs) Covered

PO1 – Engineering Knowledge

Students applied fundamental surveying and civil engineering concepts to operate the Total Station and understand field measurements.

PO2 – Problem Analysis

Participants identified real-time field issues such as instrument setup errors, alignment challenges, and environmental constraints, and solved them during the activity.

PO3 – Design/Development of Solutions

Students learned to plan survey stations, align sight lines, and generate accurate field data required for preparing site plans or contour maps.

PO5 – Modern Tool Usage

The camp enabled students to gain practical exposure to modern surveying equipment (Total Station), enhancing their technical competence.

PO9 – Individual and Team Work

Students worked in groups to complete surveying tasks, improving coordination, leadership, and collaborative fieldwork skills.

PO10 – Communication

Participants improved their communication abilities by discussing measurements, instructions, and field observations within their survey teams.

PO12 – Life-long Learning

Exposure to advanced surveying tools encouraged students to adapt to new technologies and motivated continuous learning in professional practice.

SDG Goals Aligned with the Event

SDG 4 – Quality Education

The survey camp provided experiential learning through hands-on training with the Total Station, enhancing technical skills and practical understanding for Civil Engineering students.

SDG 8 – Decent Work and Economic Growth

By equipping students with modern surveying skills, the event supported career readiness and improved employability in civil engineering and infrastructure sectors.

SDG 9 – Industry, Innovation, and Infrastructure

The use of advanced surveying equipment like the Total Station, aligns with promoting innovation and strengthening infrastructure-related education.

SDG 11 – Sustainable Cities and Communities

Surveying forms the basis for planning and designing sustainable urban and rural infrastructure. The camp introduced students to the foundational skills needed for creating resilient and well-planned communities.

SDG 17 – Partnerships for the Goals

Collaboration among faculty, student clubs (Builders Club, SAC, ASCE), and the department reflects effective partnerships that support educational advancement.

Conclusion:

The Survey Camp conducted on 15th November 2025 at Barlapalle, Madanapalle, proved to be a highly beneficial and engaging learning experience for the second-year Civil Engineering students. Through hands-on training with the Total Station, students were able to bridge the gap between theoretical knowledge and real-world surveying practices. The detailed demonstrations and guidance provided by **Dr. Sudheer Kumar Y** and **Mrs. Kandukuri Anitha** enhanced the students' understanding of modern surveying techniques, field data collection, and instrument handling. The event successfully strengthened students' technical skills, teamwork, communication, and problem-solving abilities, aligning with key Program Outcomes and Sustainable Development Goals. Overall, the camp enriched the students' practical exposure and prepared them for future academic and professional challenges in the field of Civil Engineering.