



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

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NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA

Report on

A Six-day Skill Development Training Program

on

" Industrial Automation with PLC "

Organized by

SKILL DEVELOPMENT CELL

in Association with

**Department of
Electrical & Electronics Engineering**

From 04.09.2023 to 09.09.2023

Venue: Siemens Computer Lab (EB:019)

Resource Person: **Mr. Kuldeep**, Executive Technical Programmer,
APSSDC, Vijayawada.

Organized & submitted by: Dr. V.B. Thurai Raaj, Assistant Professor in EEE & SPOC-
APSSDC t-SDI, Madanapalle Institute of Technology & Science, Madanapalle -
517325 Annamaya Dist., Andhra Pradesh, India.

Co-coordinator: 1. Mrs. Revathi K, Assistant Professor, Dept. of EEE MITS.

2. Mr. Rajesh K. S., Assistant Professor, Dept. of EEE MITS.

Total Participants: 68 -Students and 2- Faculties.

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Madanapalle-517325, Annamayya Dist., Andhra Pradesh

A Six Days Skill Development Programme
on
Industrial Automation with PLC
Organized by Skill Development Cell in association with
Department of Electrical & Electronics Engineering

From
04/09/2023 to 09/09/2023

Chief Patron Dr. N. Vijaya Bhaskar Choudary , Ph.D., Secretary & Correspondent	Patron Mrs. Keerthi Nadella Executive Director	Chief Coordinator Dr. C. Yuvaraj Principal	Coordinator Dr. V B Thurai Raaj Assistant Professor/EEE SPOC-APSSDC	Co- coordinators Mr. Rajesh K.S Assistant Professor/EEE Mrs. K. Revathi Assistant Professor/EEE	HoD Dr. A V Pavan Kumar Dept. of EEE
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The APSSDC- Skill Development Cell, Madanapalle Institute of Technology and Science, Andhra Pradesh, Madanapalle in association with the Department of Electrical & Electronics Engineering, MITS has organized a **six-day skill development program** from 04.09.2023 to 09.09.2023 on “**Industrial Automation with PLC**” In this program, about 68 participants participated and made the event grant success.

A summary of the skill development program is as follows:

Dr. P. Ramanathan, Professor & Vice Principal-Academics, MITS, and Dr. A. V. Pavan Kumar, Professor & Head of the Dept., Dept. of Electrical & Electronics Engineering, welcomed the resource person. Dr. A. V. Pavan Kumar, HOD / Electrical & Electronics Engineering, gave a brief introduction to the six-day skill development program. Dr. V B Thurai Raaj, Assistant Professor in EEE & SPOC-APSSDC t-SDI, introduced the resource person and he handed over the session to the resource person. Dr. P. Ramanathan, Professor and Vice Principal-Academics, inaugurated the program with his motivational speech.

The 68 students from the third year and two faculties from the Department of Electrical & Electronics Engineering participated in this six-day hands-on training program.

Day-1(04.09.2023)

Morning session:

Internal Architecture of PLC, Introduction to PLC, types of PLC programming languages

Afternoon session:

Normally open and normally close and Ladder logic

Day-2(05.09.2023)**Morning session:**

Logic gates implementation using PLC

Afternoon session:

Latching conditions, blinking programs

Day-3(06.09.2023)**Morning session:**

Looping concepts, Push button programming

Afternoon session:

Timer operations

Day-4(07.09.2023)**Morning session:**

Delay operations and counting operations- Incremental counting

Afternoon session:

Counting operations- Decremental counting, Incremental/ Decremental counting

Day-5(08.09.2023)**Morning session:**

Memory coils

Afternoon session:

Automation Applications- quizzing, traffic light

Day-6(09.09.2023)**Morning session:**

Automation applications machine, automatic gate systems

Afternoon session:

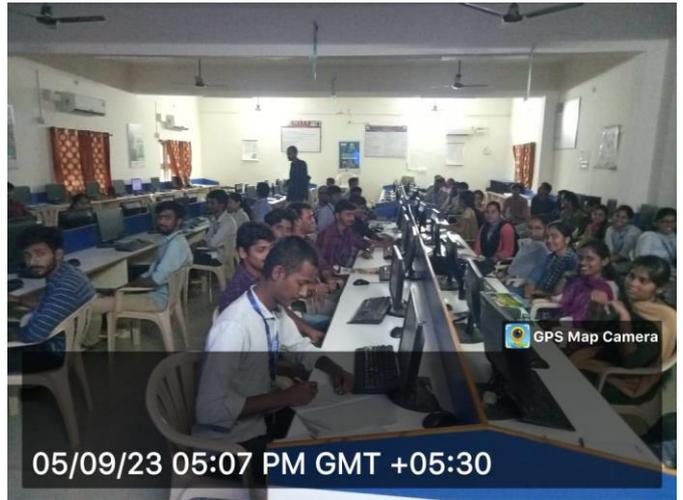
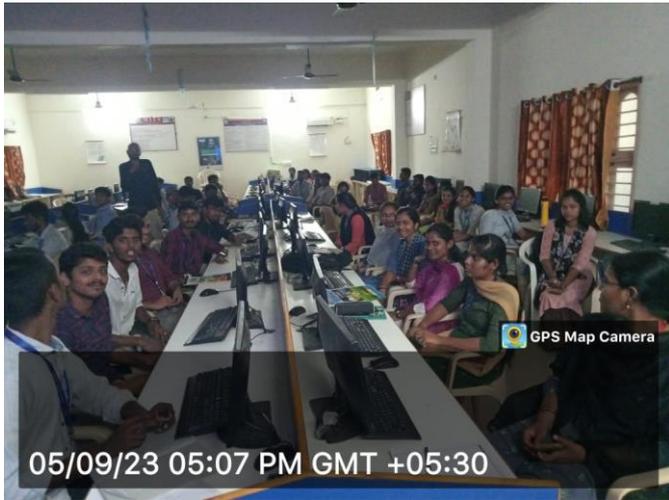
Automation applications-Elevator, metal detector

Total number of students attended: 68

Outcomes: students can be able to

1. Learn the Circuits & Drawing Designing
2. Understand the modern industrial automation systems.
3. Demonstrate working of PLCs in the industry
4. succeed in a core interview & get a core job.

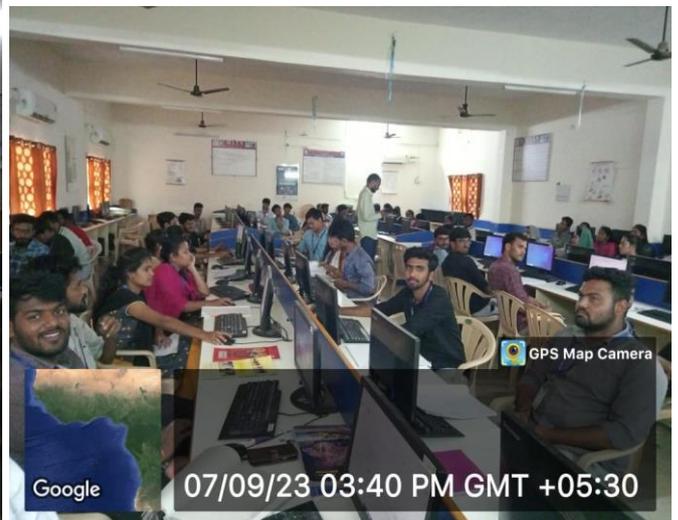
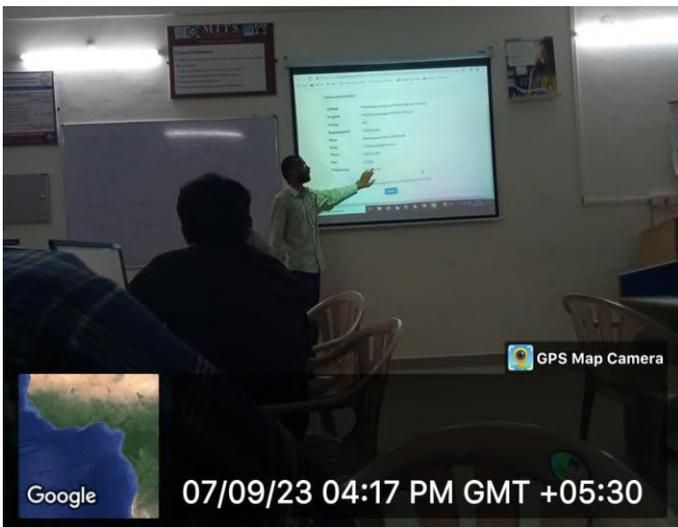
I expressed my gratitude to the Management and Dr. C Yuvaraj, Principal for giving permission and financial support to organize this program. I thank Dr. C. Kamal Basha, Professor & Vice Principal- Administration for providing the necessary needs in time and for his support. I Thank Dr. A. V. Pavan Kumar, Professor & HOD/EEE, for his continued guidance in all the parameters. Finally, I thank Dr. A V Pavan Kumar, HOD/ EEE for giving me this good opportunity to conduct this program.



During Training Session with Geo Tag



During Inauguration



During Training Sessions with Geo Tag



Dr. P. Ramanathan, Professor & Vice Principal-Academics, MITS Addressing the Gathering



Dr. A. V. Pavan Kumar, HOD / Electrical & Electronics Engineering, gave a brief introduction



Dr. V B Thurai Raaj, Asst. Prof. in EEE & SPOC-APSSDC t-SDI addressing the Gathering