



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University)



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A Report on Five Days Offline Skill Development Program on
“AI in Electronics”

Organised by Department of Skill Development Cell (APSSDC)
& Department of Electrical and Electronics Engineering
from 09.03.2026 (Monday) to 13.03.2026(Friday)

MITS
MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University under section 3 of UGC Act, 1956)
Madanapalle-517325, Andhra Pradesh, India.

A Five-Day Offline Skill Development Program
on
AI IN ELECTRONICS
Organized by
Skill Development Cell & Department of Electrical and Electronics Engineering, MITS

Resource Person
Mr. Charan R S
Trainer, APSSDC

09.03.26 to 13.03.26 CBT LAB (LB - 019)

Chief Patron: Dr. N. Vijaya Bhaskar Choudary, Founder & Chancellor
Patron: Shri. N. Dwarakaaiah, Pro Chancellor; Mrs. Keerthi Nodella, Executive Director
Program Chair: Dr. C. Yerraji, Vice Chancellor (Ee)
Co-Chair: Dr. B. Pradeep Kumar, Registrar (Ee); Dr. P. Ramesh Babu, Principal

Co-Chairs: Prof. C. Kanth Babu, Vice Principal - Administration; Prof. A. V. Pavan Kumar, Assistant Dean - Accreditation; Dr. Dipankar Roy, Dean School of Engineering; Dr. Manavalan Ganesharan, Assoc. Prof. & Head - EEE; Dr. V B Thurai Raaj, Asst. Prof. / EEE, SPOC - APSSDC; Dr. E. Lakshmi Kandan, Assoc. Prof. / EEE

Organized by: Dr. V B Thurai Raaj, Assistant Professor / EEE, SPOC –APSSDC & Dr. K. Lakshmikhandan, Associate Professor/EEE

Report Submitted by: Dr. K. Lakshmikhandan, Associate Professor-EEE

Resource Person Details: Mr. Charan R S, Trainer – APSSDC

Venue: CBT Lab.; Time: 10:00 AM to 05:00 PM

Report Received on 17.03.2026

Mode of Conduct: Offline

Participants: II EEE Department Students.

Attendance: 60 participants (Internal - 55 Students + 5 Faculties)

Objective:

The primary objective of the Skill Development Program was to provide participants with insights into the various methods of usage of Artificial Intelligence (AI) in Electronics Engineering. The program was aimed to enhance participants understanding of AI in collaboration with Electronics and equip them with the knowledge and tools necessary to address the emerging AI tools usage in Electronics.

Opening Remarks and Welcome Note

The event commenced promptly at 9:30 AM with a warm and engaging welcome address to all the audience by the Dr. V B Thurai Raaj, Assistant Professor in EEE department, Madanapalle Institute of Technology and Science (MITS) Madanapalle. In his address, he highlighted the various AI Tools usage in Electronics. Then the importance of AI in Electronics was briefed by Dr. Manavaalan, Head of the EEE Department. Then Usage in Projects, advantages and drawbacks of AI in Electronics was explained by Dr. A V Pavan Kumar, Assistant Dean – Accreditations. Then the importance of AI in Electronics with future applications was explained by Dr. K. Lakshmikhandan, Assistant Professor in EEE Department.

Following the welcome address, Resource Person: **Mr. Charan R S** took the stage to deliver an enlightening lecture on “**AI in Electronics**”.

He started the session by extending his hearty thanks to the participants, organizing members, HoD, Principal and Management of Madanapalle Institute of Technology and Science (MITS), Madanapalle for giving opportunity to share his knowledge and experience in “**AI in Electronics**”.



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Highlights of the Skill Development Program

The resource person delivered lecture and Hands on Training on the following topics:

Session 1 (Forenoon):

- AI Tools
- Introduction to Artificial Intelligence
- Applications of AI in Electronics

Session 2 (Afternoon):

- Microcontrollers and Microprocessors
- Types of Sensors
- Arduino UNO

Session 3 (Forenoon):

- ESP8266 Vs ESP32 Vs STM32
- Basics of Embedded C Programming
- Types of Communication Protocols

Session 4 (Afternoon):

- Edge AI Vs Cloud AI
- Introduction to Machine Learning
- Types of Machine Learning

Session 5 (Forenoon):

- Machine Learning Workflow
- ML Applications in Electronics
- AI + IOT Integration & Smart Systems

Session 6 (Afternoon):

- Device Communication Fundamentals
- Edge AI in devices in Action
- Voice and Audio Intelligence

Session 7 (Forenoon):

- AI in
- Industrial Automation
- Energy Management System
- Robotics and Smart manufacturing
- Ethics in Artificial Intelligence

Session 8 (Afternoon):

- Limitations of AI
- Future Trends and Industry Evolution
- Definition and need of AI

Session 9 (Forenoon):

- AI Vs Automation Vs Robotics
- Importance of AI in Electronics
- Introduction to Internet of Things

Session 10 (Afternoon):

Interactive Session

An engaging interactive session allowed students to clarify their doubts on various topics, including:

- Device Communication Fundamentals
- Data Privacy & Security
- AI across different Industries
- AI in Everyday life.

The session was highly participative, encouraging students to openly discuss their concerns and career goals with AI.

Conclusion

The program concluded with a vote of thanks delivered by Dr. K. Lakshmikhandan, Associate Professor, Department of EEE. He expressed sincere gratitude to the resource person for delivering an insightful and motivating session.

He also expressed his sincere gratitude to Honorable Chancellor, Pro-Chancellor, Vice-Chancellor (I/c), Registrar (I/c), Additional Register, Dean - School of Engineering, Principal, Vice Principal (Administration), Head Training & Placement cell, for their unwavering support and encouragement.

He also expressed his Special heartfelt thanks to Assistant Dean for Accreditations Dr. A. V. Pavan Kumar & EEE HOD Dr. Manavaalan Gunasekaran for their continuous support and guidance. All the higher officials' continuous backing was instrumental in organizing and facilitating this insightful Skill development Program and students for their support and active participation, which contributed to the success of the event.

Overall, the Five days Skill development Program proved to be highly informative and impactful, equipping students with practical knowledge, strategic guidance, and the confidence required to achieve placement success in future.



Signature of Faculty Coordinator



Signature of HoD-EEE