MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

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

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A hands-on workshop on

"Understanding Prompt Engineering and Today's AI Tools"

Organized by

Department of Electronics & Communication Engineering

In Association with MITS IEI Student's Forum

11.11.2025

Report Submitted by: Dr. G. Reddy Hemantha, Assistant Professor, Dept. of ECE, Mrs. K. Revathi, Assistant Professor, Dept. of ECE,

Resource Person Details: Mr. K. Ashok, Assistant Professor, Department of CST, MITS, Madanapalle.

Participants: 135 (Students)

Mode of Conduct: Offline

The Department of Electronics & Communication Engineering, in association with The Institution of Engineers (India) – ECE Chapter, organized a hands-on workshop titled **"Understanding Prompt Engineering and Today's AI Tools"** on **11th November 2025**. The session aimed to provide students and faculty with a practical understanding of prompt engineering, the foundational skill for effectively utilizing modern AI models and tools in academic, research, and industrial applications.

The workshop brought together faculty members and UG students to explore the rapidly growing ecosystem of AI-driven tools and the techniques required to harness their potential.

The workshop commenced with a formal welcome address by **Dr. S. Rajasekaran**, Convenor and Head of the Department of ECE, who extended his greetings to the dignitaries, resource person, faculty members, and student participants. He highlighted the significance of artificial intelligence in modern engineering practices and emphasized the need for students to develop competency in AI-assisted problem-solving. He also appreciated the IEI Student Forum for continuously initiating skill-enhancing events for students.

Technical Session by the Resource Person

The hands-on workshop was conducted by **Mr. K. Ashok**, Assistant Professor, Dept. of CST, MITS. His session focused on demystifying prompt engineering and demonstrating the real-time applications of contemporary AI tools.
Key topics covered in this session:

1. Introduction to Prompt Engineering

Prompt engineering focuses on crafting clear instructions for AI models. It helps users obtain accurate, structured, and context-aware responses.

2. Types of Prompts

Different prompting methods like zero-shot, one-shot, and few-shot improve AI output quality. Chain-of-thought and role prompting enhance reasoning and task clarity.

3. Overview of Modern AI Tools

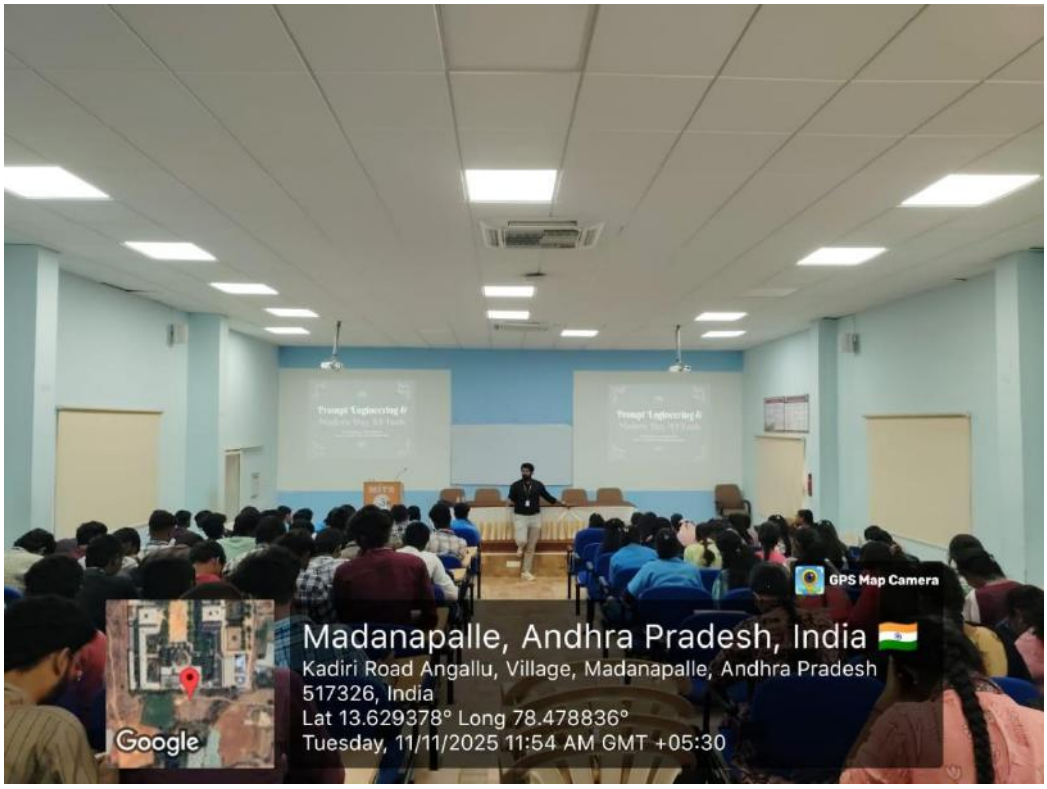
Today's AI tools support text, image, and code generation across various domains. They also improve productivity through automation, summarization, and analysis.

4. Hands-on Demonstrations

Participants learned practical prompt creation for documentation, data analysis, and content generation. Demonstrations also included multimodal AI usage for images and diagrams.

5. Ethical Use of AI

Responsible AI use ensures accuracy, fairness, and avoidance of biased outputs. Proper citation and ethical practices are essential in academic and professional settings.



The session concluded with an engaging Q&A segment, where students asked questions about:

- Role of prompt engineering in software development
- Using AI tools for project work, research, and industry applications

Participants expressed that the workshop significantly enhanced their understanding of how to practically integrate AI tools into their learning process.

Outcome of the Workshop

The workshop successfully achieved the following outcomes:

- Improved understanding of AI-assisted problem solving
- Enhanced skills in constructing effective prompts

- Awareness of tools that support research, engineering design, and documentation
- Encouragement toward responsible and ethical use of AI
- Motivation to explore AI-based project ideas and innovative applications

The hands-on workshop on **"Understanding Prompt Engineering and Today's AI Tools"** proved to be highly informative, interactive, and impactful. It provided participants with practical insights into utilizing AI tools efficiently in both academic and professional contexts. The event strengthened the students' readiness for emerging technological trends and enriched their knowledge in the domain of artificial intelligence.

The event concluded with a **Vote of Thanks** delivered by **Mrs. K. Revathi, Assistant Professor and IEI Co-coordinator, Department of ECE**, who expressed sincere gratitude to the **MITS Deemed to be University Management**, **Dr. C. Yuvaraj sir , Vice Chancellor**, **Dr. P. Ramanathan sir, Principal**, **Dr. S. Rajasekaran sir , Head of the Department of ECE** for their continued support in organizing alumni engagement programs that benefit students.