MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
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Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
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NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA

A Report on Guest Lecture on
"Next-Gen Tech Mastery: Cloud, DevOps & AI Prompting"
Organized by Department of Computer Science & Engineering
in association with Institution's Innovation Council
26.08.2025

Report Submitted by: Mrs. Renuka GB, Assistant Professor, Department of Computer Science & Engineering.
Resource Person Details: Mr. Karanam Guruteja, Sr. Technical Trainer
Mode of Conduct: Offline
Report Received on 01.09.2025.

The Department of Computer Science & Engineering, in association with the Institution's Innovation Council (IIC), organized a Guest Lecture on "Next-Gen Tech Mastery: Cloud, DevOps & AI Prompting" on 26th August 2025 at 10:00 AM in WB-308, Madanapalle Institute of Technology & Science (Deemed to be University), Madanapalle. Dr. M. Sreedevi Head of the CSE Department, welcomed the resource persons and the students, Mrs. G. B. Renuka, Assistant Professor, Department of CSE coordinated the event. The event began with a formal welcome by the faculty, followed by the resource person onto the dais.

The resource person, Mr. Karanam Guruteja, commenced the session by expressing his sincere gratitude to the Management, the Department, the organizing members, and the Head of the CSE Department at MITS, Madanapalle, for the opportunity to share his expertise on Generative AI. The session was attended by 60 pre-final year students from the Department of CSE.
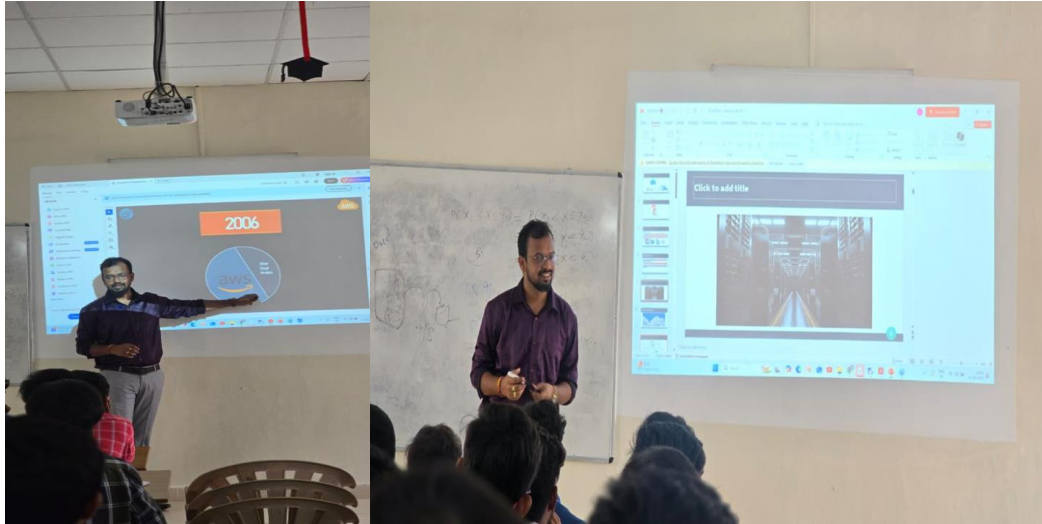

The resource person, Mr. Karanam Guruteja, Sr. Technical Trainer (College and Corporate Trainer), delivered an enriching lecture on the theme "Next-Gen Tech Mastery: Cloud, DevOps &AI Prompting."

He began the session by emphasizing the importance of Cloud Computing in today's digital era, explaining how organizations are rapidly shifting from traditional infrastructures to cloud-based platforms for scalability, cost efficiency, and flexibility. He discussed leading cloud service providers such as AWS, Microsoft Azure, and Google Cloud, and highlighted their practical use cases in industries ranging from e-commerce to healthcare.

Moving forward, he provided an in-depth explanation of DevOps practices, stressing how DevOps bridges the gap between software development and IT operations. He explained the principles of Continuous Integration (CI) and Continuous Deployment (CD), automation tools such as Jenkins, Docker, Kubernetes, and the significance of maintaining a collaborative culture for faster software delivery. Students also gained insights into how industries are adopting DevOps pipelines to ensure high-quality, reliable, and efficient software releases.

The session further delved into AI Prompting, one of the emerging areas in Artificial Intelligence. Mr. Guruteja explained how prompt engineering enables developers and data scientists to optimize interactions with AI models like ChatGPT, Copilot, and Bard. He demonstrated the importance of framing effective prompts to generate accurate, context-aware responses from AI systems. Practical examples were shared, showcasing how prompt engineering is being used in content creation, software development, and business intelligence.
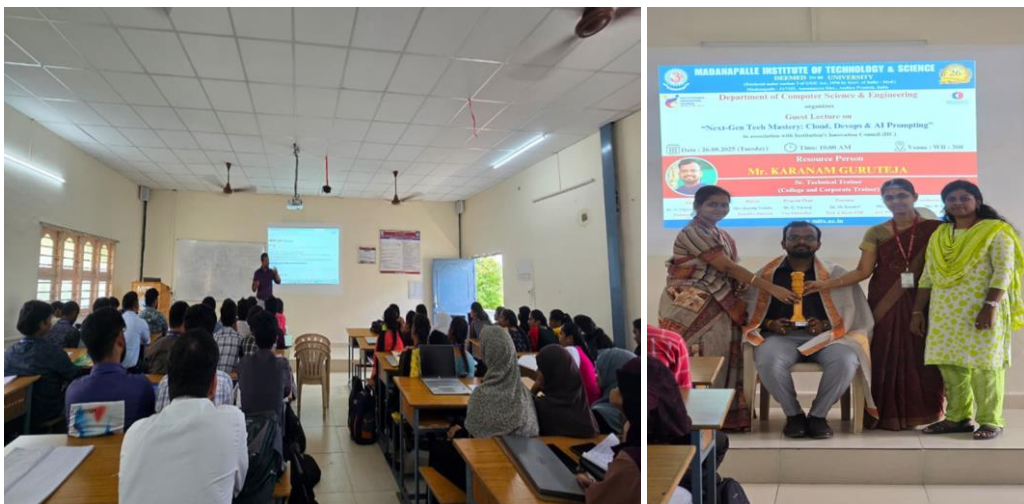

Throughout the lecture, the resource person linked each topic with real-world industry practices. For instance, he illustrated how:
1. Cloud + DevOps integration accelerates product development lifecycles.
2. AI Prompting improves decision-making and productivity across IT sectors.
3. Companies like Netflix, Amazon, and Infosys are already leveraging these technologies to maintain global competitiveness.

The session also highlighted the career opportunities available for engineering students in these domains, motivating them to enhance their skills in cloud platforms, DevOps tools, and AI applications.

Key Outcomes of the Session:

- Gained awareness of modern trends in Cloud Computing and DevOps.
- Understood the significance of AI Prompting in real-time applications.
- Learned about career opportunities and skills demanded in the IT industry.
- Developed awareness of how integrated Cloud–AI solutions are shaping the next generation of technology.

The program concluded with a felicitation of the resource person as a token of gratitude. The convenors expressed their sincere thanks to the Management, Principal, Head of the Department, and the Institution's Innovation Council for their continuous support in organizing such events.