

GOVERNMENT POLYTECHNIC , ADDANKI

(AFFILIATED TO STATE BOARD OF TECHNICAL EDUCATION AND TRAINING)

NEWS LETTER FOR TECHNICAL EVENTS-2023

ISTE Technical Newsletter – Academic Year 2023–2024

ISTE Technical Quiz on **Computer Science Basics**

The Department of Computer Engineering successfully conducted the **ISTE Technical Quiz on Computer Science Basics on 16 July 2024** for 5th Semester DCME students. The event was part of the department's technical skill enhancement activities under ISTE initiatives.



The quiz aimed to strengthen students' understanding across major computer science domains, including C, Java, Python, Operating Systems, Data Structures, DBMS, Networks, IoT, HTML, and JavaScript. Students participated enthusiastically and demonstrated strong competitive spirit and technical knowledge.

The event was effectively organized by **Smt. P. Latha, L/DCME**, under the supervision of HCMES.

The event witnessed active participation from students, who showcased enthusiasm and competitive spirit. The quiz helped students:

- Refresh fundamental programming concepts
- Enhance speed and accuracy in answering technical questions
- Prepare for upcoming placements and technical tests
- Boost confidence in core subject areas

Purpose of the Quiz

- To reinforce core concepts of Computer Science.
- To improve logical thinking and technical confidence among students.
- To assess students' understanding through MCQ-based evaluation.

ISTE Technical Newsletter – Special Edition

A.Y. 2023–2024

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ISTE Technical Seminar: “Artificial Intelligence and machine Learning”

The Department of Computer Engineering successfully organized an expert seminar on **Artificial Intelligence & Machine Learning** for DCME students on **20 August 2024**, under ISTE initiatives. The session was delivered by **Dr. G. Sambasiva Rao**, who provided a comprehensive introduction to AI and ML along with real-world examples and practical insights.



During the seminar, the resource person **explained the fundamentals of Artificial Intelligence and Machine Learning**, highlighting their importance in daily life through examples such as **face recognition in smartphones, chatbots, and virtual assistants like Alexa**. He then discussed **various types of Machine Learning**, including supervised, unsupervised, and reinforcement learning, and elaborated on the **core steps of ML**

development—collecting data, cleaning and preparing it, training the model, testing, and refining it.



The session also included a demonstration of **popular AI/ML tools and technologies**, particularly Python-based libraries such as **NumPy, Pandas, TensorFlow, and Scikit-learn**, emphasizing their importance in real-time AI applications. The role of AI across major industries was highlighted, covering applications in **healthcare (disease prediction), agriculture (crop monitoring), finance (fraud detection), and education (smart tutoring systems)**.

Dr. Rao also addressed **ethical issues in AI**, including concerns related to data privacy and responsible use of technology. He further explained the **future scope of AI & ML**, emphasizing the growing job opportunities, high demand in IT, robotics, and data science, and the importance of AI

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in solving real-world problems. Students were also guided on the **skills required** to pursue careers in AI—basic mathematics, Python programming, and logical thinking.

The seminar concluded with an **interactive Q&A session**, where students clarified their doubts and received guidance on career paths and project ideas in AI & ML.