

# GOVERNMENT POLYTECHNIC , ADDANKI

(AFFILIATED TO STATE BOARD OF TECHNICAL EDUCATION AND TRAINING)

## NEWS LETTER FOR TECHNICAL EVENTS-2024

ISTE Technical Newsletter – Academic Year  
2024–2025

### 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 as part of ISTE technical activities for the academic year 2024–2025. This quiz consisted of **20 Multiple Choice Questions (MCQs)** covering important subjects such as **C, Java, Python, Operating Systems, Database Management Systems, Data Structures, Computer Networks, IoT, HTML, and JavaScript**. As per the departmental meeting resolutions, it was decided to conduct this quiz to strengthen students' foundational knowledge in core Computer Science areas, and **Smt. P. Latha, L/DCME**, was appointed as the **Event In-Charge** to coordinate the entire activity. The event was part of the department's technical skill enhancement activities under ISTE initiatives.



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.

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### ISTE Technical Newsletter – Special Edition

A.Y. 2024–2025

### ISTE Technical Seminar: “Basics of Data Science”

The Department of Computer Engineering organized an **Expert Seminar on “Basics of Data Science” on 20 August 2025** under ISTE technical activities for DCME students. The session was delivered by **Dr. Bhanu Prakash Battula**, an eminent academician in Data Science, who provided students with a clear understanding of the field, its applications, and career pathways.



The seminar began with an explanation of the **fundamentals of Data Science**, emphasizing how data plays a crucial role in every sector today—**business, healthcare, banking, education, transport**, and more.



The resource person explained the **types of data** and described the complete **Data Science Process**, including steps such as:

- Collecting data
- Cleaning and preparing data (removing errors and duplicates)
- Analyzing data
- Building predictive or analytical models
- Visualizing results through **charts and graphs**
- Making meaningful decisions based on insights

Students were introduced to important **Data Science tools**, including **NumPy, Pandas, and Matplotlib** for data handling and visualization. The session also covered **data analysis techniques**, stressing how Data Science uncovers hidden patterns and insights.

Further, the resource person highlighted real-life **Applications of Data Science**, including:

- **Healthcare:** Disease prediction

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- **Finance:** Fraud detection
- **Retail:** Customer buying pattern analysis
- **Education:** Student performance analytics
- **Transport:** Traffic prediction and route optimization

Dr. Bhanu Prakash also discussed major **Challenges in Data Science**, such as handling large volumes of data, poor data quality, and concerns related to privacy and security.

The seminar concluded with an overview of **career opportunities** in the field—**Data Engineer, Data Scientist, Data Analyst**—along with essential skills students need to acquire, such as:

- Basic mathematics
- Programming fundamentals
- Logical and analytical thinking

The session ended with an **interactive Q&A**, where students clarified doubts related to tools, career paths, and project development in Data Science.