

REPORT ON GUEST LECTURE

Date: 19/09/2024

Title: Guest Lecture on Object-Oriented Programming through Java

Date: 17th to 18 th September 2024

Venue: CSE Seminar Hall

Audience: CSM II B.Tech Students

Speaker: Dr. B. Narendra Kumar Rao, Professor and Program Head (AI & ML), MBU

Introduction:

The Department of Computer Science and Engineering(AI & ML) organized a guest lecture on **Object-Oriented Programming through Java** for the **II B.Tech I Sem** students. The session was conducted by **Dr. B. Narendra Kumar Rao**, an esteemed professor and expert in **AI & ML**. The event was held in the CSE Seminar Hall on **17th October 2024**.

Objective of the Lecture:

The lecture aimed to provide students with in-depth knowledge of Module 2 of the curriculum, covering essential concepts related to classes and objects in Java.

Topics Covered:

Dr. B. Narendra Kumar Rao delivered a detailed session on the following topics:

1. Classes and Objects:

- Introduction to Classes and Objects
- Class Declaration and Modifiers
- Class Members and Access Control
- Declaration and Assignment of Class Objects
- Accessing Private Members of a Class
- Constructor Methods and Overloaded Constructors
- Nested Classes and Final Classes & Methods
- Passing Arguments by Value and Reference
- Usage of the Keyword this

2. Methods in Java:

- Introduction to Methods
- Defining and Overloading Methods
- Overloaded Constructor Methods
- Class Objects as Parameters in Methods
- Recursive Methods and Nesting of Methods
- Method Overriding
- Attributes: Final and Static

Key Takeaways:

- The lecture provided valuable insights into the fundamentals of Object-Oriented Programming.
- Real-world examples were discussed to enhance the understanding of concepts.
- Students gained clarity on key topics such as access control, method overloading, and constructors.
- Interactive Q&A session helped students clear their doubts effectively.



Conclusion:

The guest lecture was highly informative and engaging. **Dr. B. Narendra Kumar Rao** shared his expertise and enriched students' knowledge on Java programming. The session proved to be an excellent opportunity for students to strengthen their understanding of Object-Oriented Programming concepts. The Department of Computer Science and Engineering extends its gratitude to the speaker for his valuable contribution and to the students for their enthusiastic participation.

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