

EVENT NAME: Workshop on "Java Coding Essentials: Hands-on Foundational Concepts and Practical Coding Practices"

Organized by **Department of MCA**

DATE: 21st February 2025

VENUE: B306

BRIEF DESCRIPTION OF THE EVENT:

The primary objective of the workshop was to provide participants with in-depth knowledge on key Java programming concepts and tools. The session was designed to strengthen problemsolving skills, encourage best practices, and equip participants with practical knowledge for efficient software development.

Topics Emphasized:

Overview of key concepts in Java programming

The session began with an overview of key concepts in java that covered method overloading, method overriding, static keyword, exception handling, multithreading and concurrency.

• IntelliJ IDEA IDE

The workshop introduced IntelliJ IDEA, a widely used integrated development environment (IDE) for Java. Participants explored its intelligent code assistance, debugging features, and shortcuts that improve coding efficiency.

• ExecutorService

The concept of ExecutorService was explained as a Java framework for managing multithreading and concurrent task execution. The session covered different types of thread pools and their applications, helping participants understand how to efficiently execute multiple tasks.

• JSON Placeholder API

A free online REST API used for testing, was introduced to demonstrate API interactions. Students understood making API calls to retrieve and manipulate JSON data. The session highlighted how developers can use JSON Placeholder to simulate real API responses and integrate web services into applications.

• HTTP Call Request

The importance of HTTP call requests in web communication was explained, focusing on sending and receiving data between client applications and servers. Participants worked with Java's built-in HTTP clients to execute GET, POST, PUT, and DELETE requests.

• Orphan Objects

orphan objects and their impact on memory management in Java was discussed. Participants learned how objects that are no longer referenced still occupy memory until garbage collected.

Outcomes: By the end of the session, students were able to:

- Gain hands-on experience with Java development tools, improving their coding efficiency and debugging skills.
- Obtain a strong understanding of handling multithreading, making HTTP requests, and integrating APIs effectively.
- Understand memory management and best practices for writing optimized and efficient Java code..

ACTIVITIES CONDUCTED:

- Case Study and Practical Application: Participants were involved in developing a ticket booking application incorporating key concepts covered in the session. They implemented multithreading to handle multiple booking requests, HTTP requests for API interactions, and managed memory efficiently to prevent orphan objects.
- Q&A and Discussion: The session addressed participant queries and highlighted the importance of data structures in writing efficient code. Also the importance of providing genuine content in resumes was emphasized. Interview preparation tips and essential skills for success in the IT industry were also discussed, making the session both technical and career-focused.

NO. OF PARTICIPANTS: 48

WINNERS (if any, for activities conducted): NA

GUEST DETAILS:

Mr. Ankit Kumar Software Engineer Oracle Cerner, Bengaluru

PHOTOGRAPHS OF THE EVENT:



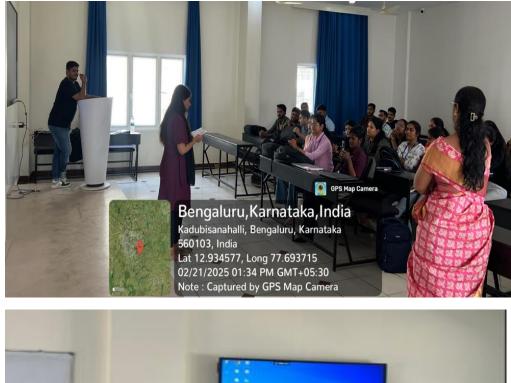


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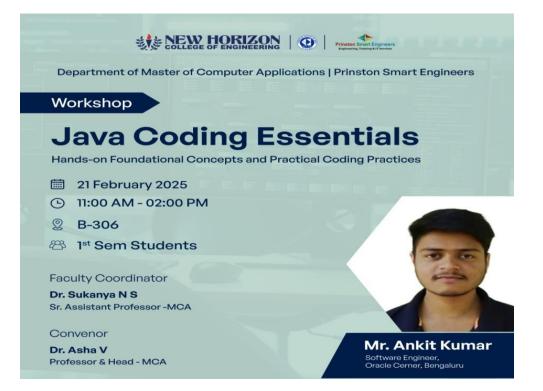
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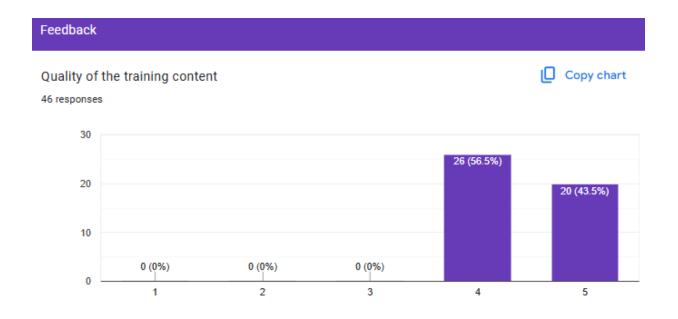




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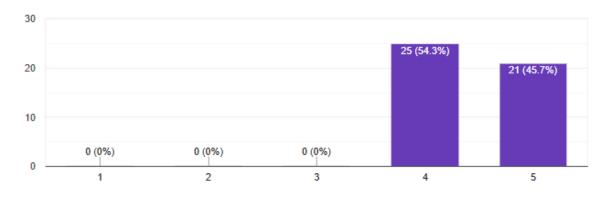
FEEDBACK:



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Clarity in the coding exercises covered during the session

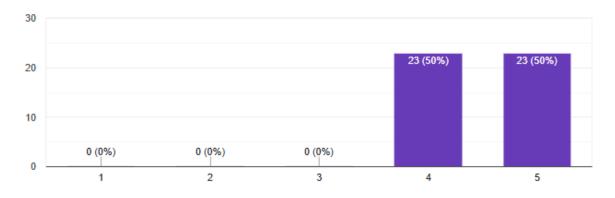
46 responses



Coverage of various concepts with real-time examples/scenarios

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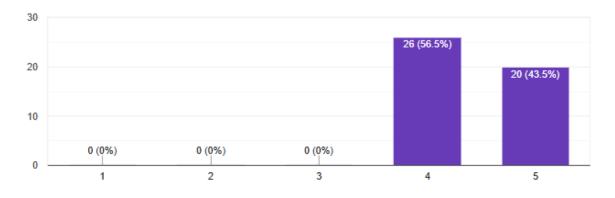




Achievement level in understanding the topics

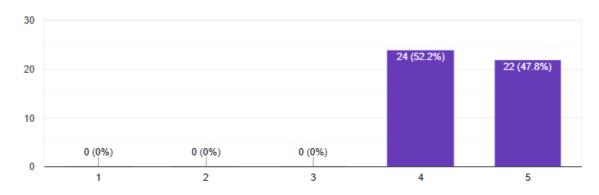
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46 responses



How relevant was the content of the session to your course or academic interests?

46 responses



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FACULTY COORDINATOR

Dr. SUKANYA N S

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EVENT COORDINATOR

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