NEW HORIZON COLLEGE OF ENGINEERING

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 problem-solving 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

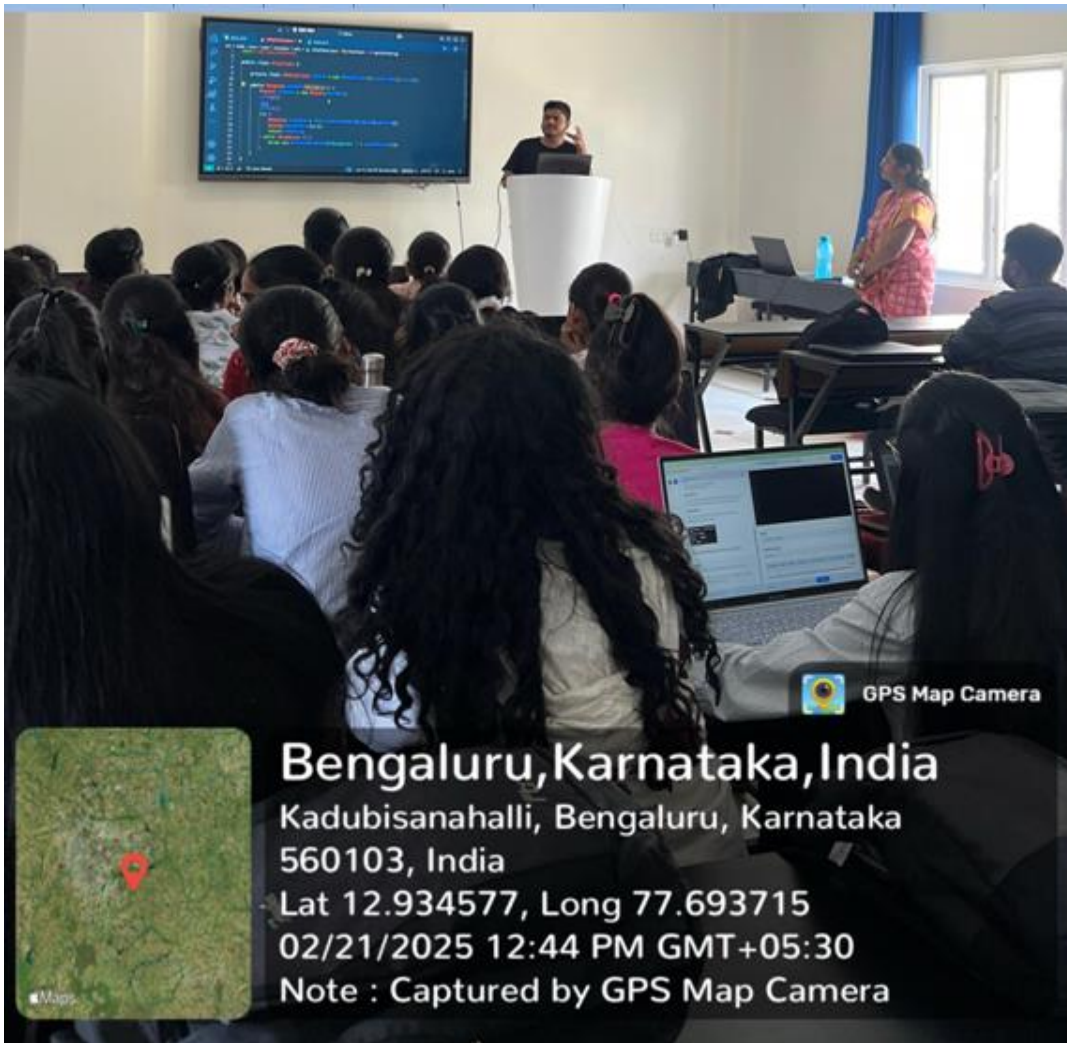# WINNERS (if any, for activities conducted): NA

GUEST DETAILS:
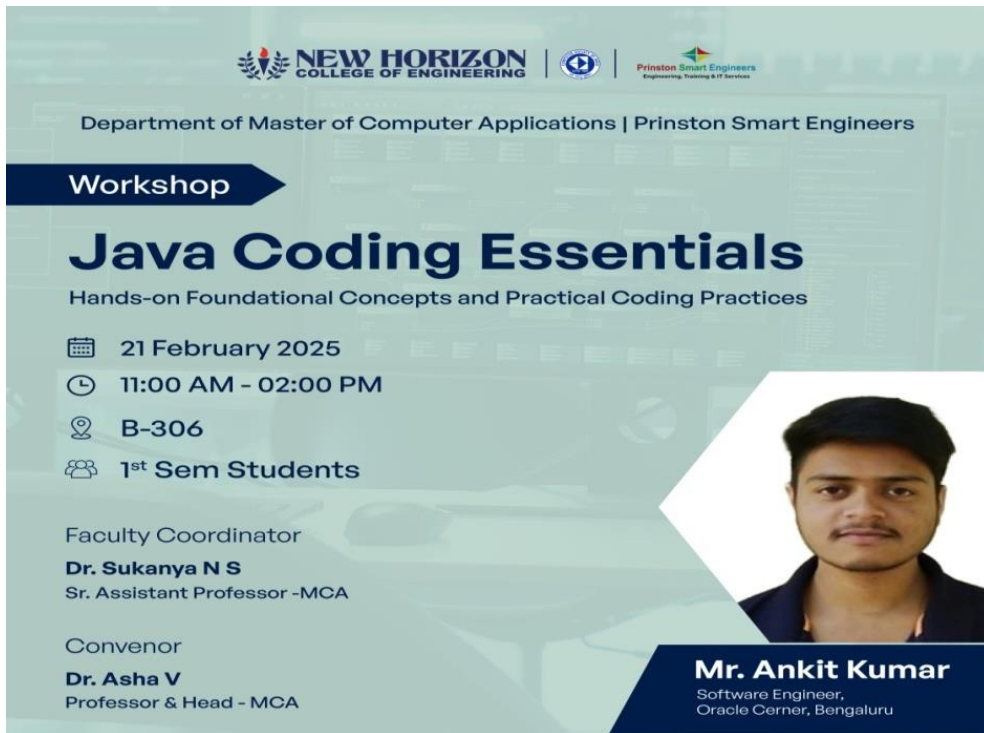
Mr. Ankit Kumar

Software Engineer

Oracle Cerner, Bengaluru

PHOTOGRAPHS OF THE EVENT:

Bengaluru,Karnataka,India
Kadubisanahalli, Bengaluru, Karnataka
560103, India
Lat 12.934577, Long 77.693715
02/21/2025 12:44 PM GMT+05:30
Note : Captured by GPS Map Camera

Bengaluru, Karnataka, India
Kadubisanahalli, Bengaluru, Karnataka
560103, India
Lat 12.934577, Long 77.693715
02/21/2025 01:34 PM GMT+05:30
Note : Captured by GPS Map Camera

Bengaluru, Karnataka, India
Kadubisanahalli, Bengaluru, Karnataka
560103, India
Lat 12.934577, Long 77.693715
02/21/2025 01:35 PM GMT+05:30
Note : Captured by GPS Map Camera

POSTER:

FEEDBACK:

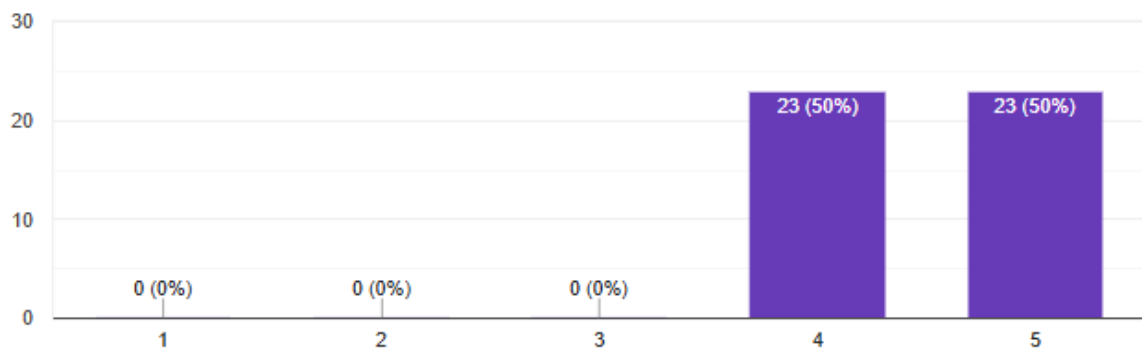## Clarity in the coding exercises covered during the session
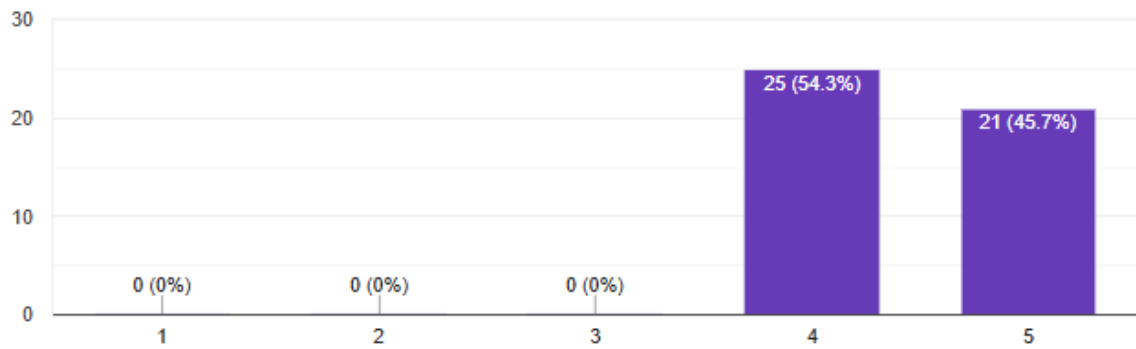
46 responses

Coverage of various concepts with real-time examples/scenarios
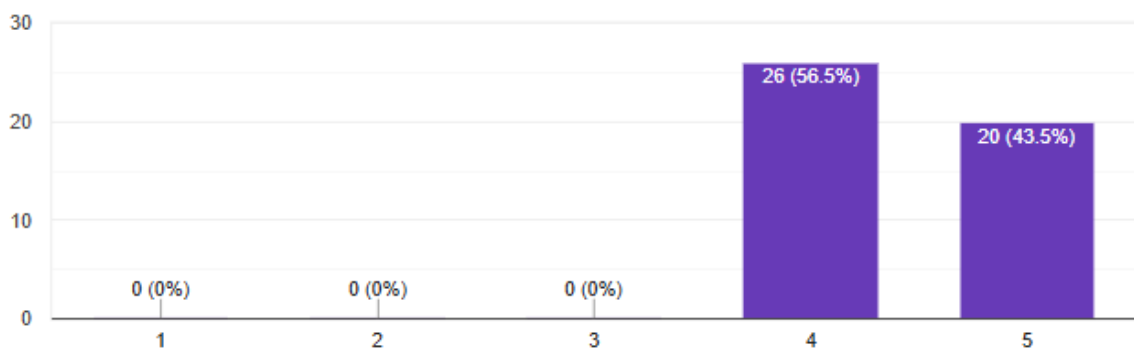
46 responses

Achievement level in understanding the topics
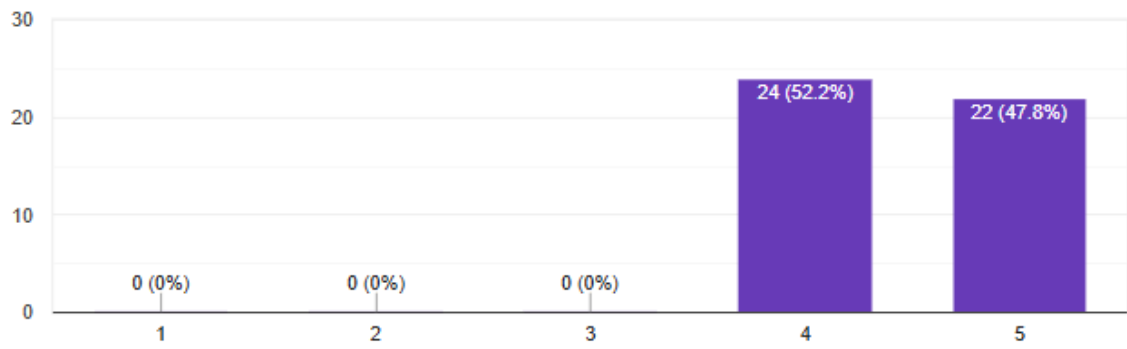
46 responses

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

46 responses

FACULTY COORDINATOR

Dr. SUKANYA N S

HOD-MCA

Dr. ASHA V

Attendance:

NEW HORIZON
COLLEGE OF ENGINEERING
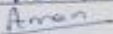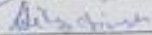
DEPARTMENT OF MCA
ATTENDANCE SHEET OF PARTICIPANTS
WORKSHOP- JAVA CODING ESSENTIALS: HANDS-ON FOUNDATIONAL
CONCEPTS AND PRACTICAL CODING PRACTICES
AY 2024-25

RESOURCE PERSON: Mr. ANKIT KUMAR
SOFTWARE ENGINEER, ORACLE CERNER, BENGALURU

DATE: 21-02-2025
TIME: 11:00 am to 2:00 pm
PARTICIPANTS: STUDENTS SEM I
VENUE: MCA B306

SERIAL NO	USN NO	NAME	SIGNATURES
01	1NH24MCA125-T	Aditya Kamate.	
02	1NH24MCA043-T	Nikhil Kumar @	
03	1NH24MCA001	Aditya Kumar	Aditya Kumar
04	1NH24MCA011-T	Aman Kumar. R	Aman
05	1NH24MCA031-T	Akash Rawat	
06	1NH24MCA134-T	Abhinav Reddy R	Abhinav
07	1NH24MCA061-T	Achyut	Akui
08	1NH24MCA050	Akash C Nagne	Akash
09	1NH24MCA067	Aditya Singh	
10	1NH24MCA057	Nitish Anand	
11	1NH24MCA165-T	Ankita Banchgani	

12	INH24MCA020-T	Gouri Tandel	Gouridel
13	INH24MCA155-T	Athwathy Vijindhandson	Athth,
14	INH24MCA129-T	Adheeksha P	Adht
15	INH24MCA026-T	Divya N Shivani gi	D
16	RINH24MKA050-T	Atish prakash	Atish
17	INH24MCA181-T	Daashon V	Dsl
18	INH24MCA169-T	Ashish Padukone	Ashish P
19	INH24MCA059-T Vanshitha	Bammidi Vanshitha	Vanshi
20	INH24NTR038-T	Bhavani Shukla.	Bhavani
21	INH24MCA152-T	Bhagavati Kedar	Bhagavati
22	INH24MCA155-T	Harshita. K	Harsha
23	INH24MCR112-T	Dakshayani Gond	B
24	INH24MCA138-T	-Akshaya M.V	AM
25	INH24MCA045-T	Bhavya. M	BM
26	INH24MCA000-T	Charupriya. k	C
27	INH24MCA020-T	Sandhya.A	Sandhya
28	INH24MCA167-T	Amulya. M. N	A
29	1NH24MCA020-T	Bsindhu Reddy C	Bsindhu Reddy C
30	INH24MCA072-T	Juweriya Mohammadi	Juwy
31	INH24MCA113-T	Deekshitha. R.A	Deeksha R.A
32	INH24MCA002-T	Beauty Manna	Beauty Manna
33	INH24MCA053-T	Disha Dey	Disha
34	INH24MCA051-T	Arpita kumari	Arpita
35	INH24MCA012-T	Agnay. C.S.	D
36	INH24MCA001-T	Jangavini. S.P	Jangavini
37	INH24MCA041-T	Abhishe K.G.H	Abhishet

38	INH24MCA067-T	Sraneesh-P	
39	INH24MCA22-T	Dichanth Patel	
40	INH24MCA072-T	Amruth Kumar T J	Ajkis
41	INH24MCA121	Chethan D J	
42	INH24MCA019-T	C. Jayanth	C. Jess
43	INH24MCA164-T	Harsha.y.	Harshay
44	INH24MCA126-T	Avinah, Kamble	
45	INH24MCA039-T	chintha venkatish	venkatish
46	INH24MCA179-T	Balveer Singh, A.	Badvee
47	INH24mcA174-T	Akash	
48	INH24mca129-T	Gowtham	Gowtham

EVENT COORDINATOR

HOD MCA