NEW HORIZON COLLEGE OF ENGINEERING

Workshop on "Microservices for Beginners"

Organised by

Department of MCA

Date: 29th November 2025

Venue: MCA Lab

Brief Description of the Event

The workshop on Microservices for Beginners was conducted to introduce students to essential concepts of backend development and service-oriented architecture. The session provided MCA first-year students with hands-on experience in building console applications, developing REST APIs, and creating simple microservices using Python. It aimed to strengthen their understanding of modern backend workflows and equip them with practical skills required for building scalable and modular applications.

Topics Emphasised

Building Console Applications using Python

Students were introduced to writing simple console-based programmes in Python to understand basic input–output operations and programme flow. This gave them a foundation before moving into API and microservice development.

Developing REST APIs in Python

The resource person demonstrated how REST APIs are created using Python frameworks such as Flask and FastAPI. Students learnt how to define endpoints, send requests, and view JSON responses, helping them understand real-time backend communication.

Introduction to Microservices Architecture

The session explained the concept of breaking applications into independent, loosely coupled services. Students understood how microservices improve scalability, maintainability, and deployment flexibility compared to monolithic applications.

Simple Microservice Project Implementation

A small hands-on project was implemented where students built and tested a basic microservice in Python. This helped them connect the concepts of console logic, API development, and microservice integration in a practical manner.

Outcomes

- Students gained hands-on experience in writing Python console programs.
- Understood how to design and expose REST API endpoints.
- Learned the structure, benefits, and workflow of microservices.
- Built and executed a simple microservice project integrating console logic.
- Understood real-time application flow from console app → API → microservice.

Activities Conducted

- Demonstration of basic Python programs to build console apps.
- Live coding session on creating REST APIs using Python (Flask/FastAPI).
- Group Activity: Students tried with a simple service module and tested endpoints.
- Q&A, Interaction and clarification session with the resource person.
- Discussion on industry roles related to microservices architecture, backend engineering, API development, and cloud-native applications.

No of Participants: 56

Winners: (if any, for activities conducted): NA

Guest Details: (Name, Designation, Organisation, Location) :

Mr. Ankit Kumar
Senior Member of Technical Staff
Oracle Health, Bangalore

Poster of the Event

Photographs of the Event

Bengaluru, Karnataka, India
Outer Ring Rd, Near Marathalli, Kaverappa Layout,
Kadubeesanahalli, Bengaluru, Karnataka 560103, India
Lat 12.934366° Long 77.693145°
29/11/25 11:30 AM GMT +05:30

Bengaluru, Karnataka, India
Level 8, Tower 1, Umiya Business Bay Cessna Business Park,
560 103, Marathahalli - Sarjapur Outer Ring Rd, Kaverappa
Layout, Kadubeesanahalli, Bengaluru, Karnataka 560103, India
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Embassy Tech Square Main Rd, Kaverappa Layout,
Kadubeesanahalli, Bengaluru, Karnataka 560103, India
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Bengaluru, Karnataka, India
Outer Ring Rd, Near Marathalli, Kaverappa Layout, Kadubeesanahalli, Bengaluru,
Karnataka 560103, India
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Feedback

Quality of the training content
45 responses
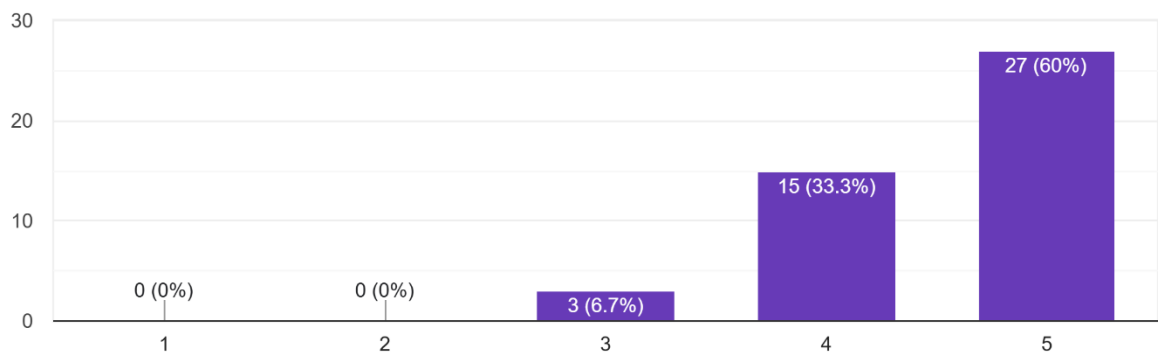
Clarity of the presentation.
45 responses
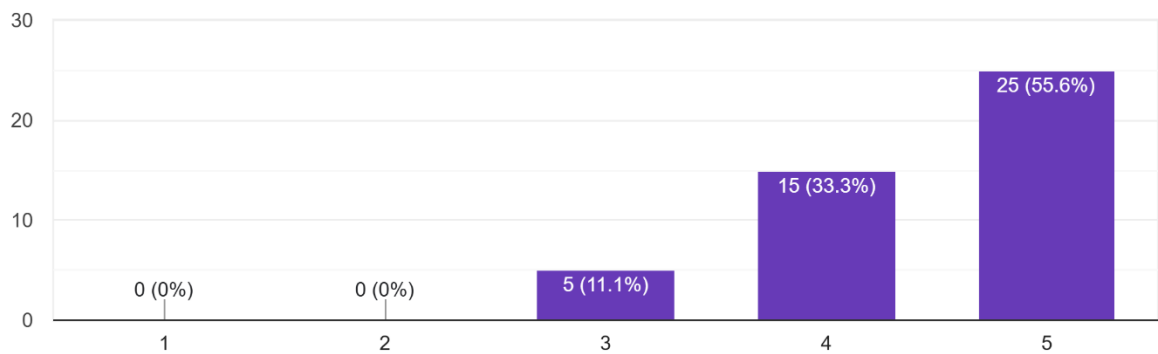
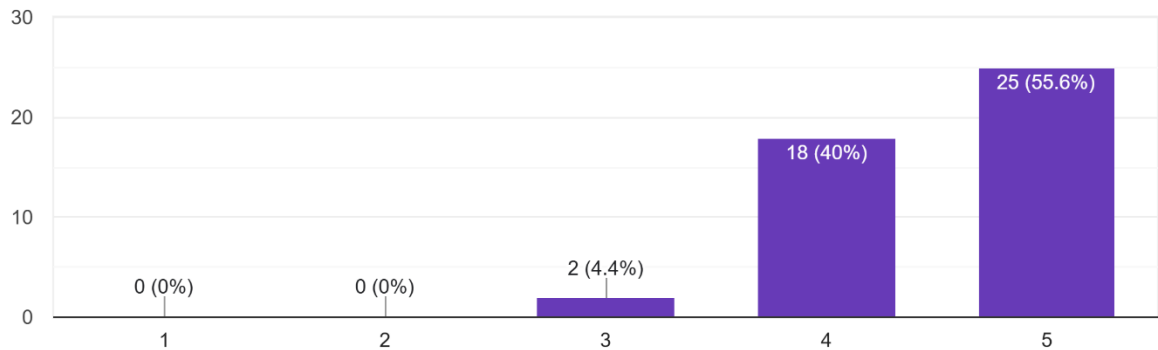

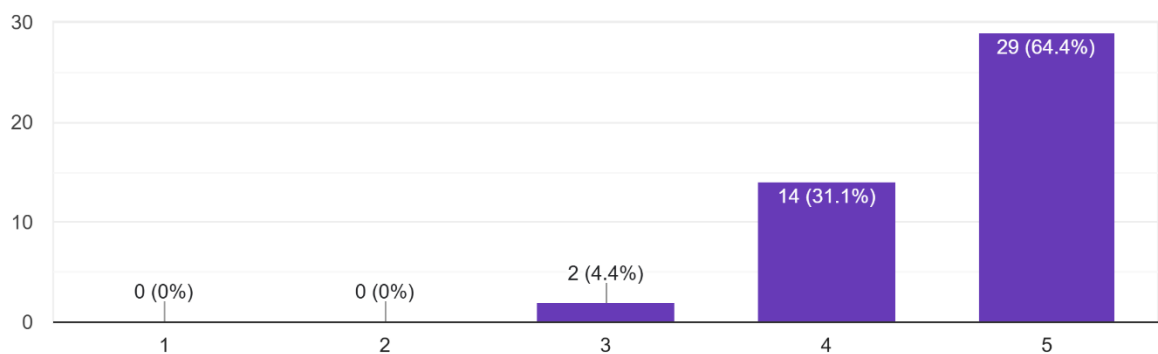### Effectiveness of the examples depicted during the session.
45 responses
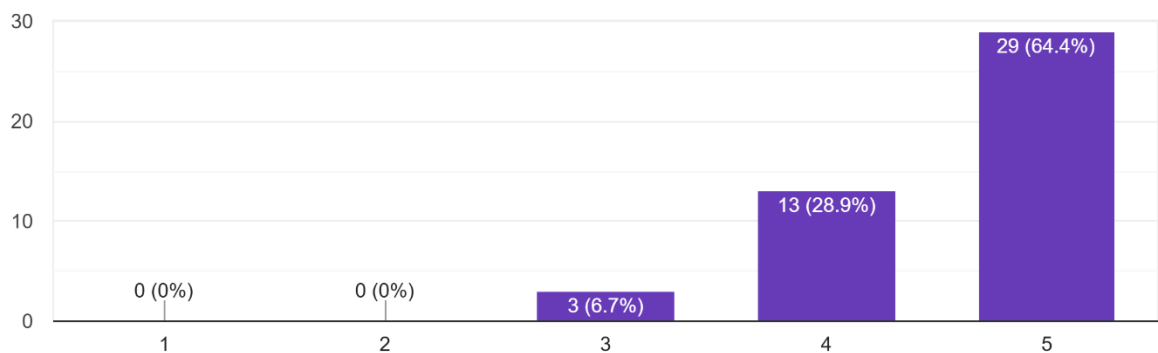
Achievement level in understanding the topics

45 responses

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

45 responses

Faculty Coordinator   **HoD-MCA**

Dr. B Nithya Ramesh   **Dr. Asha V**

Attendance:

DEPARTMENT OF MCA
AY 2025-26
ATTENDANCE SHEET OF PARTICIPANTS
WORKSHOP
MICROSERVICES FOR BEGINNERS

RESOURCE PERSON: Mr. ANKIT KUMAR

Senior Member of Technical Staff

Oracle Health, Bengaluru

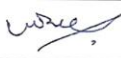**DATE: 29.11.2025**

TIME: 09:00 am to12:30 pm
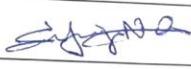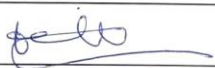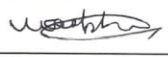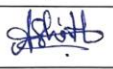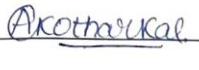
PARTICIPANTS: I SEM, Section - C
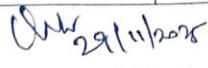
VENUE: MCA LAB 1

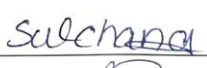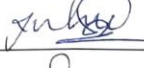| SERIAL NO	USN NO	NAME	SIGNATURE
1	25MCA120	Veeresh . K. Sheeri	
2	25MCA119	Suneel H. gaddi	
3	25MCA127	Tejas Yankachi	
4	25MCA083-T	Samir HK	
5	25MCA031	Vinitha Lobo	
6	25MCA068-T	Soumya Verma	Soumyaverma
7	25MCA003-T	Vageesha Yadav	Vageesha
8	25MCA013-T	Sandliya Doashti N.	
9	25mCA172-T	Thanya. MM	
10	25MCA055-T	Sharel. K. Fernandes	
11	25MCA064-T	Shashidhar. B. Kawrent	
12	25MCA096-T	Tarun. M	TARUN.M

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13	25MCA032-T	SUBHAM	Subham
14	25MCA086-T	SANYAM KUMAR	Sanyam Kumar
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28	25MCA019-T	Samjot sachin. Pathak	Sam
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33	25MCA174-T	Sankalp Sandup Acharya	Auf
34	25MCA122-T	Sanjog. G. Naik	Naik
35	25MCA023-T	Sindhuja S	Sindhu
36	25MCA025-T	Tanishka. G	

SERIAL NO	USN NO	NAME	SIGNATURE
37	25MCA108 -T	Sufiya Noorain	
38	25MCA092-T	Shweta.G.Mallannavar	
39	25MCA123-T	Sapna.Mallikarjun.Aratal.	
40	25MCA150-T	Vidya. K	Vidya.K.
41	25MCA094-T	Thanu Shree. G	
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43	25MCA014 -T	Vinay Yadav	
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48	25MCA008-T	Souvik Kamila	
49	25MCA028-T	Dobariya Krinel	Krinu
50	25MCA042-T	Kripalani Riddhi	
51	25MCA102-T	Ashitha Uk	
52	25MCA097-T	Ananya Kulkarni	Ananya
53	25MCA060-T	Sulochana	Sulchana
54	25MCA140-T	Inchara.SK	
55	25MCA002-T	D Vijaya Lakshmi	
56	25MCA115-T	Arya.Kotharkar	Akotharkar
57			
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29/11/2025

EVENT COORDINATOR

HOD-MCA