

NEW HORIZON COLLEGE OF ENGINEERING



EVENT NAME: Workshop on “Emerging Applications of Data Structures in Technology”

Organized by
Department of MCA

DATE: 13th June 2026

VENUE: MCA Lab

BRIEF DESCRIPTION OF THE EVENT:

The workshop on "**Emerging Applications of Data Structures in Technology**" provided participants with insights into the fundamental role of data structures in modern computing and emerging technologies. The session covered the application of arrays, linked lists, stacks, queues, trees, graphs, and hash-based structures in domains such as Artificial Intelligence. Through practical examples and case studies, participants explored how efficient data organization and management contribute to optimized algorithm performance, scalable software development, and real-time decision-making systems. The workshop enhanced participants' understanding of selecting appropriate data structures to solve complex computational problems and develop industry-relevant technology solutions.

TOPICS EMPHASIZED:

- Discussed the significance of Trees in hierarchical data representation, database indexing, and file system organization.
- Explored the role of Graph Data Structures in modeling relationships and networks, with examples from social media and navigation systems.
- Demonstrated the working of Binary Search Trees and B-Trees for efficient searching, insertion, and data management.
- Presented practical examples illustrating how Trees and Graphs are used to solve real-world computational problems and improve algorithm efficiency.

OUTCOMES:

Students were able to

- Understood the applications of trees and graphs in modern computing systems.
- Learned to represent and traverse tree and graph data structures.
- Identified suitable data structures for solving different computational problems.
- Recognized the industry relevance of tree and graph data structures in software development.

ACTIVITIES CONDUCTED:

Demonstration of tree and graph data structures using practical examples to illustrate their representation, traversal, and real-world applications.

- Guided activity where students analyzed different problem scenarios and identified suitable tree and graph structures for efficient solution design.
- Hands-on exercise involving the construction and traversal of Binary Search Trees and graph representations using adjacency matrices and adjacency lists.
- Interactive discussion on algorithm efficiency, searching, path finding, and the role of trees and graphs in modern computing applications.
- Q&A and interaction session focusing on industry applications of tree and graph data structures, career relevance, and problem-solving approaches in software development.

NO. OF PARTICIPANTS: 53

WINNERS (if any, for activities conducted): NA

GUEST DETAILS (Name, Designation, Organisation, Location) :

Mohammed Yasin Harun,
Senior Software Engineer,
Oracle Cerner, Bangalore

PHOTOGRAPHS OF THE EVENT:

NEW HORIZON
COLLEGE OF ENGINEERING

Workshop

Emerging Applications of Data Structures in Technology

13th June 2026
09:00 AM to 12:00 PM
B 207 - MCA Labs

Mr. Mohammed Yasin Harun
Senior Software Engineer
Oracle Cerner

Faculty Coordinator
Dr. Arpana Prasad
Associate Professor - MCA

Convenor
Dr. V Asha
HoD - MCA

Organised by
Department of Master of Computer Applications

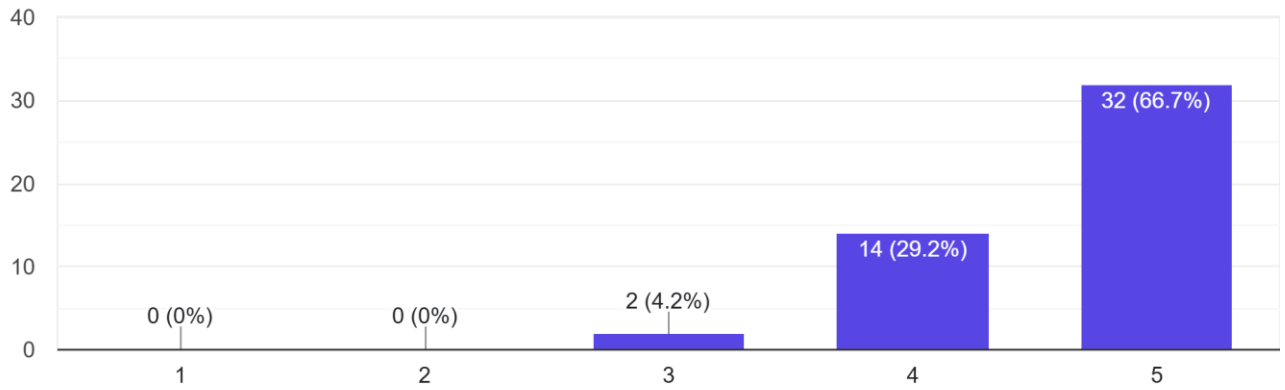




FEEDBACK:

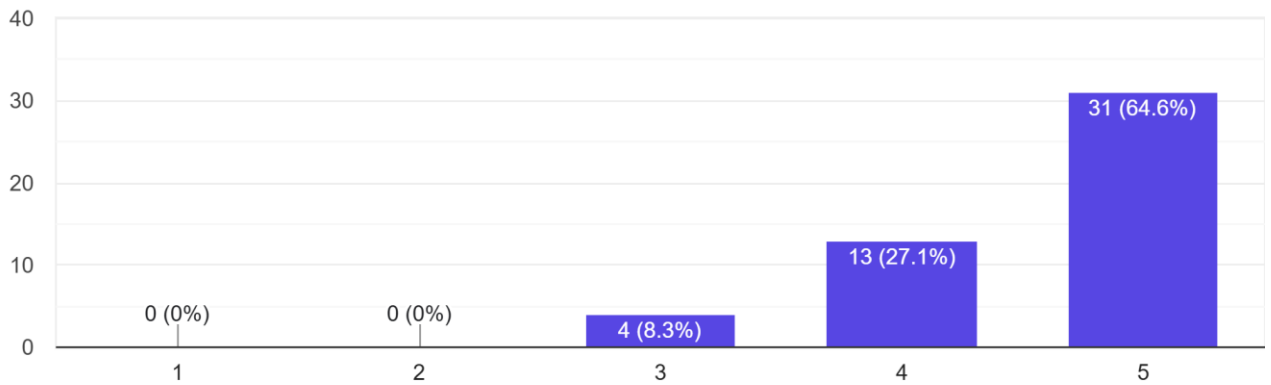
Quality of the training content

48 responses



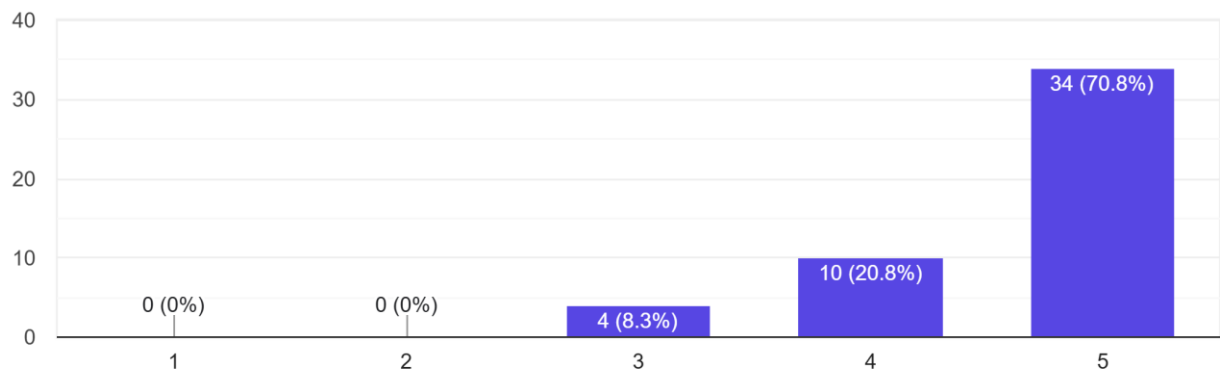
Clarity of the presentation.

48 responses



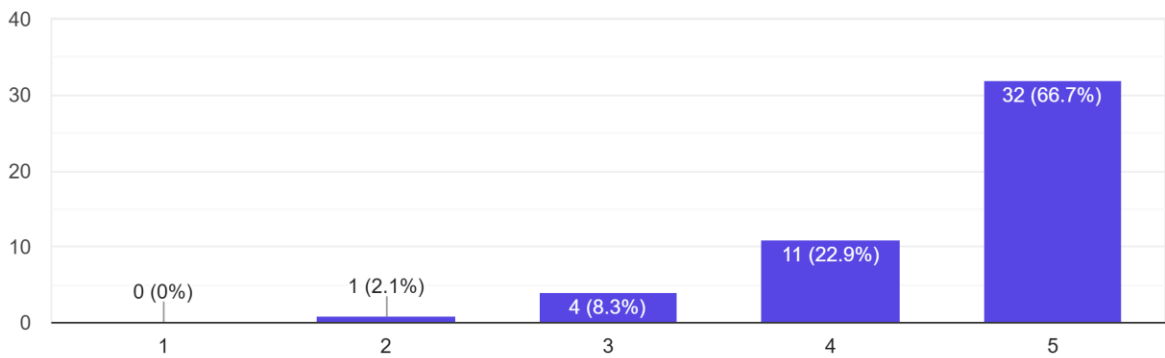
Effectiveness of the examples depicted during the session.

48 responses



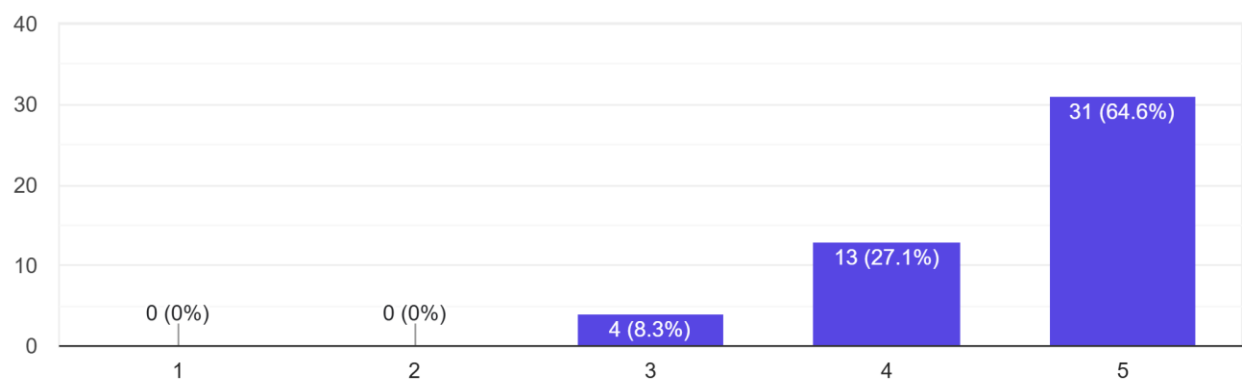
Level of achievements of topics in learning

48 responses



Rate the relevance of the topic to future study and work.

48 responses



Comments

if any

Overall Positive Feedback: The session was found "Good," "Excellent," "Nice," and "Helpful," by multiple respondents indicating it was a good training session or workshop.

Clarity and Explanation: Respondents praised the speaker, Mr. Mohammed Yasin Harun, for explaining concepts "Well and simple," providing "good clarity," and ensuring a "Clear understanding" of the topics.

Effectiveness and Engagement: The training was noted as "very effective and engaging" and "informative," helping participants understand the basic concepts.

Real-World Application: The workshop was particularly beneficial for helping attendees understand the "real life application of graphs," including where they can be used and some industry-based knowledge.



DR ARPANA PRASAD
FACULTY COORDINATOR



DR V ASHA
HOD MCA

Head of the Department
Department of Master of Computer Applications
NEW HORIZON COLLEGE OF ENGINEERING
2000 Road, Bellandur Post, Bengaluru - 560 102

ATTENDANCE:



DEPARTMENT OF MCA

AY 2025-26

ATTENDANCE SHEET OF PARTICIPANTS

WORKSHOP

TITLE: Emerging Applications of Data Structures in Technology

RESOURCE PERSON: Mr. Mohammed Yasin Harun

DATE: 13-06-2026





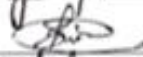




TIME: 09:00 am to 12:00 pm

PARTICIPANTS: STUDENTS - MCA SEMESTER II SECTION C

VENUE: MCA LAB

SERIAL NO	USN NO	NAME	SIGNATURES
1.	INH05MC122	SANJANA . S. C	
2.	INH25MC135	Shravani	
3.	INH25MC141	Sneha - U. Naik	
4.	INH25MC162	Tiyasa Mondal	
5.	INH25MC125	Sanjyot Sachin Pathak	
6.	INH25MC163	Shreya Ulegaddi	
7.	INH25MC128	Sanyam Kumar	
8.	INH25MC143	Saumya vesme	
9.	INH25MC121	Saadhya . S	
10.	INH25MC123	Sanjana . U. Patil	
11.	INH25MC138	Shweta . G. M	
12.	INH25MC160	Tharu Shree . G	
13.	INH25MC168	VEEKSHA -HEGDE	
14.	INH25MC171	Vidya . K	
15.	INH25MC150	Sulfiya Noorah	

WORKSHOP: "Emerging Applications of Data Structures in Technology"

SERIAL NO	USN NO	NAME	SIGNATURES
16.	1NH25MC159	Sunilkumar	
17.	1NH25MC157	Tarun.M	TARUN.M
18.	1NH25MC147	S. Yashwanth Reddy	Yashwanth
19.	1NH25MC134	Shashwath . B. Kumar	
20.	1NH25MC165	Yashwanth Kumar.M	Yashwanth
21.	1NH25MC152	Sunil .K. Reddi	
22.	1NH25MC158	Tavisaki. M.D	
23.	1NH25MC169	Veeresh K Sheen	Veeresh
24.	1NH25MC170	Venkatesh G	Venkatesh
25.	1NH25MC154	SURAJ THAKUR.M	Suraj Thakur
26.	1NH25MC148	Souvik Kamila	
27.	1NH25MC178	Yashwanth Chaudhary	Yashwanth Chaudhary
28.	1NH25MC175	Nishal Kashyap	Nishal
29.	1NH25MC127	Shruti	
30.	1NH25MC146	Srajan	
31.	1NH25MC139	Sampath Gowda.TV	Sampath
32.	1NH25MC144	Soulabh Muludi	
33.	1NH25MC126	Vishal Kumar	Vishal
34.	1NH25MC107	Vasogun Arjunshi	Arjunshi
35.	1NH25MC181	Silvathya Rakesh	
36.	1NH25MC164	Vageesha Yadav	Vageesha
37.	1NH25MC166	Vaishnavi Toragallamath	Vaishnavi
38.	1NH25MC140	Sindhya S	Sindhya
39.	1NH25MC156	Tanishka G	Tanishka
40.	1NH25MC136	Shravani A	Shravani
41.	1NH25MC174	Vinitha Lobo	Vinitha

