

Report

on

“Expert Session on Data Structures Made Easy: Building Blocks of Problem Solving”

Organized by Department of Artificial Intelligence and Data Science
10th October, 2025

Event Summary

- Event Title- **Expert session on “Data Structures Made Easy: Building Blocks of Problem Solving”**
- Duration – 2 Hours
- Target Participants-SE AI&DS Students
- Resource Person-Prof.Mrs.Bhavna Khivsara, Assistant Professor in the Computer Department at SNJB’s KBJ College of Engineering, Chandwad
- Event Coordinator-Mrs. Radha P. Sali (Assistant Professor, AI & DS)

Nearly **50 students** from the Second Year AI & DS attended the session. The expert talk was organized as part of the **academic enrichment and skill development initiative** by the Department of Artificial Intelligence and Data Science.

The session aimed to strengthen students’ understanding of **core data structure concepts**, demonstrate their **real-world applications**, and highlight their **importance in placements and competitive programming, Mini projects guidelines**. The expert discussed practical aspects, illustrated algorithmic strategies, and provided insights into **problem-solving approaches** relevant to engineering and AI-based application.

❖ **Objectives**

- To introduce the **fundamental principles and importance** of Data Structures in computer science.
- To demonstrate **real-life applications** of arrays, linked lists, stacks, queues, trees, and graphs.
- To relate **theoretical understanding to practical implementations** through examples and case studies.

- To highlight the role of **Data Structures** in placements, interviews, and technical **problem solving**.
- To encourage students to **enhance logical and analytical thinking** through algorithmic practice.

❖ **Key Highlights of the Session**

Topics Covered

The expert delivered an insightful lecture covering:

- Fundamentals of Data Structures and their classification
- Complexity analysis and efficient algorithm design
- Core applications of **Arrays, Linked List, Stack, Queue, Trees, and Graphs**
- Real-world case studies:
 - Employee record management using arrays and hashing
 - Task scheduling using queues
 - Graph traversal for social networks and route mapping
- Industry relevance and interview perspectives in data structure-based problem solving

❖ **Interactive Activities**

- **Case Study Discussion:** Students analysed examples of how various data structures are applied in real-life problem domains.
- **Live Demonstration:** The resource person showcased how stacks and queues work using visual tools.
- **Q&A Session:** Students raised queries about efficient algorithms, time complexity, and placement-oriented DS problems.
- **Motivational Segment:** The speaker emphasized that mastering data structures is the foundation of becoming a successful programmer.

❖ **Institutional Gender Equity Initiatives Discussed**

- Encouraging **self-learning** through MOOCs/NPTEL courses.
- Promoting **collaborative problem-solving** through hackathons and coding clubs.

- Integrating **industry-aligned topics** to bridge academic and real-world skill gaps

❖ **Feedback and Impact**

Feedback was collected via a Google Form at the end of the session. The analysis indicated that:

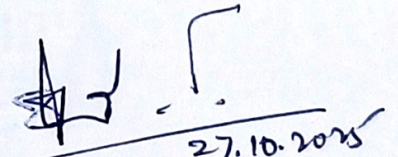
- **92%** of students found the session relevant and engaging.
- Students appreciated the expert's clarity, real-world examples, and problem-solving insights.
- Many participants expressed interest in learning advanced algorithms and participating in coding competitions.

❖ **Conclusion**

The **Expert Talk on "Data Structures Made Easy: Building Blocks of Problem Solving"** was highly informative and interactive. It effectively connected classroom learning with practical and industry applications. The session enhanced students' confidence in understanding core data structure concepts and motivated them to strengthen their programming skills for academic excellence and future placements.



Mrs. Radha P. Sali
Event Coordinator



Dr. S. V. Gumaste
Head AI&DS

Poster / Flyer / Leaflet about the event

INSTITUTE OF ENGINEERING

Department of Artificial Intelligence and Data Science

Organized a Expert Session On
"Data Structures Made
Easy: Building Blocks of Problem
Solving"

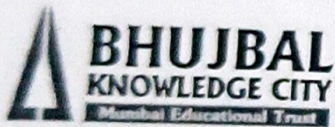


Speaker

Mrs. Bhavna Khivsara
Assistant Professor , Dept. of
Comp. Engg., SNJB's KBJ College
of Engineering, Chandwad

Date: 10th October, 2025
Time: 10:00AM to 12:00PM
Location: Lab No. 215 MET's BKC
IOE, Nashik.

Target Audience: Students of SE AI&DS Engineering

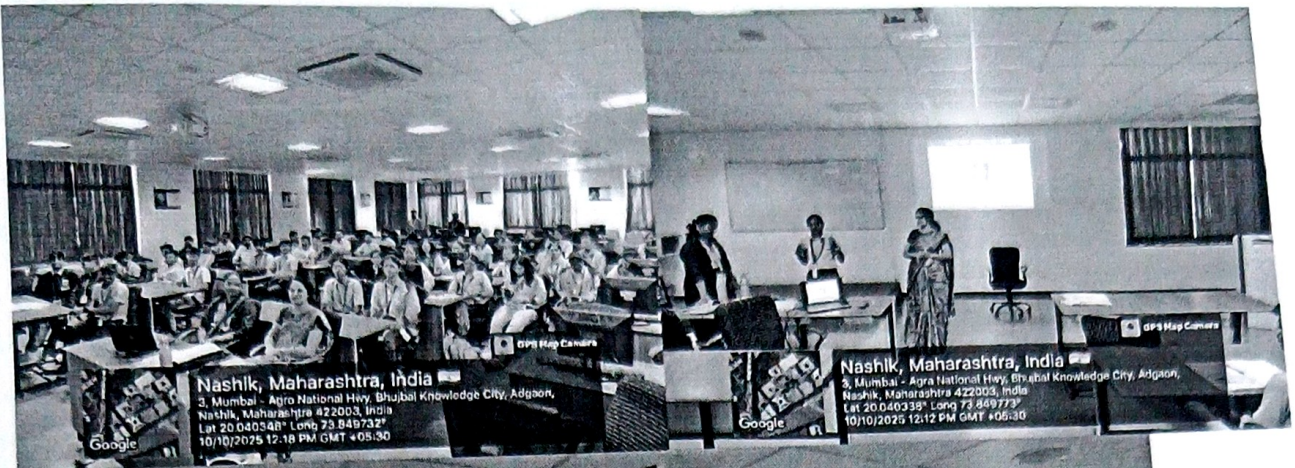


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MET's Bhujbal Knowledge City, IOE Department of AI & DS

Feedback Analysis

Feedback Parameter	PO Mapped	Strongly Agree (%)	Agree (%)	Neutral (%)	Disagree (%)	Strongly Disagree (%)
The session enhanced my understanding of core concepts of Data Structures.	PO1, PO2	35.80	55.00	7.50	1.70	0.00
The examples and demonstrations helped me understand real-world applications of Data Structures.	PO3, PO5	33.30	50.00	14.20	2.50	0.00
The expert effectively explained topics and maintained good interaction.	PO8, PO9	40.00	48.30	10.00	1.70	0.00
The session improved my problem-solving approach related to algorithms and data organization.	PO2, PO11	32.50	52.50	12.50	2.50	0.00
The session motivated me to explore Data Structures more deeply for future learning and placements.	PO11	45.00	47.50	7.50	0.00	0.00
Overall, I am satisfied with the organization and conduct of the Expert Talk.	PO10	38.30	51.70	8.30	1.70	0.00