



BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL INSTITUTE OF TECHNOLOGY

MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058.
(An Empowered Autonomous Institute Affiliated to University of Mumbai)
CSE MCA Department

Academic Year: 2025-26	Batch : 2025-2027	Semester: I	Class: FYMCA
Course Code: MC501	Course Name: Data Structures		Course Type : PC

Innovative Teaching Learning Adopted

Following teaching Learning methods have been adopted to teach Data Structures course.

1) Self Learning :

For DS course, I've given them a self learning topic to practice on Object Oriented Programming C++ on HackerRank for first four week of the course. They need to run the code written and test the test cases given on HackerRank and document it and upload it on Moodle.

Outcome: Practical session on Object Oriented Concepts of C++

2) Video Lecture and Flip Learning:

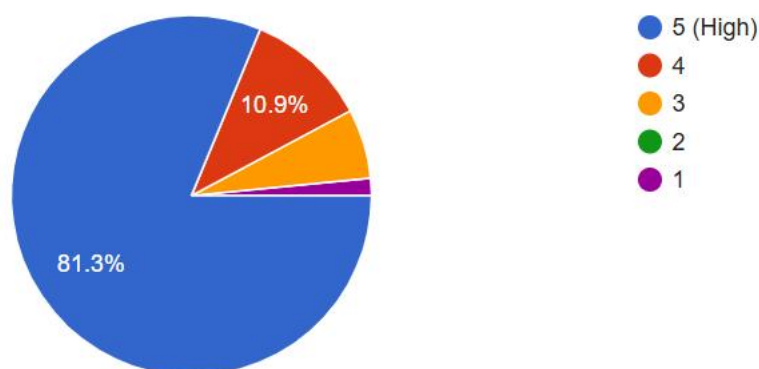
Instructor has given them a video lecture on Stack and its operation on 27/10/2025. Students have to watch the video and come prepared. Instructor has asked students questions on 30/10/2025 based on the video to test their level of understanding and explained the concept in more detail.

Video Link: https://drive.google.com/file/d/1DR2hZH_9nNw2e1GpwykXDcSw-UqPxggP/view

Outcome: Video lecture and testing the knowledge.

Rate the sorting technique

64 responses



3) Peer Learning :

Instructor has created 4 group batch wise. Allotted 8 numbers to 8 students in a card. Students will have to act and explain how the assigned sorting is performed.

Outcome: Knowledge about how the sorting is performed.



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