

Engineering plus Session Conducted for Data Structures Using Python

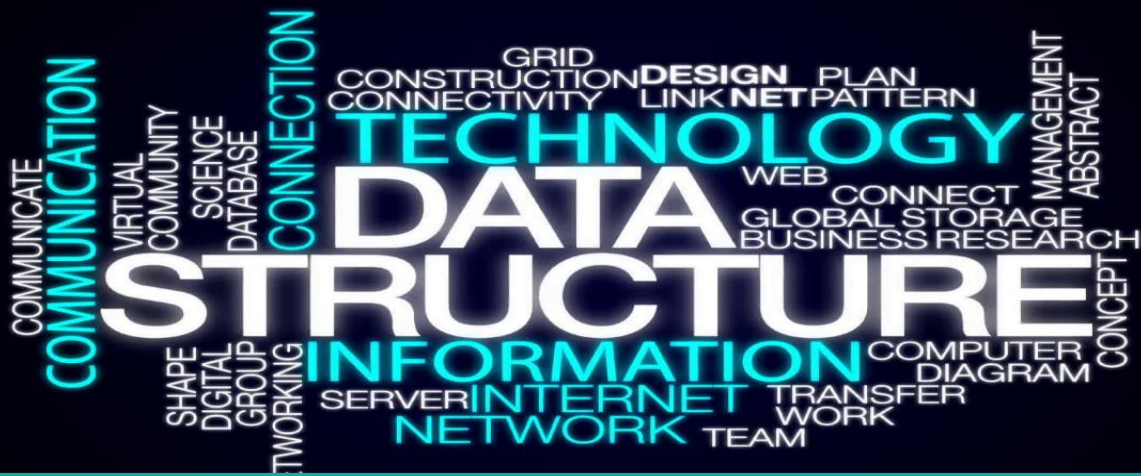
Engineering Plus is 10 to 12 Days of pure lab sessions with the duration of 1.5 to 2 hours a day. In this period of Engineering Plus session institute selected one of the core engineering component and the expert faculties have taken the lab sessions for the respective subjects. As this is not the part of university curriculum, only interested students had participated.

Data Science and Machine Learning (Phase 2)

Recent engineering plus session was held in month of September, 2022. This course has been divided into 4 different phases from basic to advance in order to provide complete training of the course with a specialization tactic. The second phase of this course is Data Structures using PYTHON, was taken by different expert faculties of the institute. This course was conducted by NLJIET with a nominal fees of 1000/ Rupees.

Key Highlights for Phase-2: Data Structures using PYHTON (September 2022)

Total Participants	Teaching Hours per Batch	Duration
22	20-22 Hours	5th September, 2022 to 17th September, 2022



Phase-II: Data Structures using Python/Java

Sr. No.	Topic	Sub-Topic
1.	Introduction to Data Structures	<ul style="list-style-type: none"> Introduction to Linear Data Structure Introduction to Non-Linear Data Structure Time complexity analysis of searching and sorting algorithms
2.	Sorting	<ul style="list-style-type: none"> Quick Sort Implementation Merge Sort Implementation
3.	Stack	<ul style="list-style-type: none"> Infix to Postfix conversion Expression Evaluation
4.	Recursion	<ul style="list-style-type: none"> Introduction to recursion Basic problems on recursion Problems on strings using recursion
5.	Object Oriented Programming Concepts	<ul style="list-style-type: none"> Basic concepts of Class and Object Creating objects Getters and setters Constructors and related concepts
6.	Queue	<ul style="list-style-type: none"> Simple Queue Implementation Circular Queue Implementation Implementation of stack and queue using array
7.	Linked List	<ul style="list-style-type: none"> Singly linked list Doubly linked list Problems on linked list Implementation stack and queue using linked list
8.	Tree	<ul style="list-style-type: none"> Introduction to Binary Trees Introduction to Binary Search Trees Searching a node in BST Binary Search Tree traversals

