



Data Structure with Java

Course Duration: 30 Days

SNO	Module Name	Topic
1	Data Structure with Java	<p><u>Basic Programming</u></p> <p>Array Array of Array Programming Practice String StringBuffer and StringBuilder</p> <p><u>Recursion and Complexities</u></p> <p>Recursion with Array Recursion ArrayList class Recursion Backtracking Time and space Complexities</p> <p><u>Linear Data Structure</u></p> <p>Stack Queue Linked List</p> <p><u>Non-Linear Data Structure</u></p> <p>Binary Tree Binary Search Tree Heap and Map Graph</p> <p><u>Algorithm</u></p> <p>Greedy Algorithm Dynamic Programming</p> <p><u>Competitive Programming</u></p> <p>Number Theory Computational Geometry Text Based Processing Game Theory Maths Constructive Alogorithm Dynamic Programming using Digit</p>



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Sorting and Searching

Bubble Sort
Bucket Sort
Comb Sort
Counting Sort
Heap Sort
Insertion Sort
Merge Sort
Quick Sort
Radix Sort
Selection Sort
Shell Sort
Tim Sort
Linear Search
Binary Search