Data Structure & Algorithms Using Java



Duration: 2.5 Months

Object-Oriented Programming And Concepts Introduction to Data Structure Arrays

- Introduction To Array
- One Dimensional Primitive And Non-primitive Array
- Multidimensional Primitive And Non-primitive Array

Linked List

- Introduction To Linkedlist
- Implementation Of Linked List
- Different Operation On Linked List
- Traversing
- Searching
- Insertion
- Deletion
- Reverse
- Circular Linked List And It's Implementation
- Doubly Linked List And It's Implementation

Stack

- Stack Introduction
- Array Implementation Of Stack
- Push And Pop Operations On Stack
- Linked Implementation Of Stack
- Applications Of Stack
- Reversal Of String
- Balanced Bracket Problem
- Infix To Postfix Conversion
- Evaluating The Postfix Expression

Queue

- Introduction To Queue
- Array Implementation Of Queue
- · Linked Implementation Of Queue
- Types Of Queues
- Circular Queue
- Priority Queue
- Dequeue

Tree

- Introduction To Various Tree
- Binary Tree

- Binary Search Tree
- Strict Binary Tree
- Complete Binary Tree
- Extended Binary Tree
- Balanced Tree
- Implementation of Binary search tree
- Traversal in Binary Search Tree
- Preorder Traversal
- Inorder Traversal
- Postorder Traversal
- Spanning tree
- Minimum spanning tree
- Prim's Algorithm

Graph

- Introduction to Graph
- Undirected Graph
- Directed Graph
- Implementation of Graph
- Traversal in Graph
- Breadth First Search
- Depth First Search
- Shortest Path Algorithm (Dijkstra)

Sorting

- Various sorting Techniques and algorithms
- Bubble Sort
- Selection sort
- insertion sort
- quick sort
- merge sort

Searching

- Linear Search
- Binary Search
- Hashing

Partners : ORACLE







Java



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GHAZIABAD

1, Anand Industrial Estate, Near ITS College, Mohan Nagar, Ghaziabad (U.P.)

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GURGAON

1808/2, 2nd floor old DLF, Near Honda Showroom, Sec.-14, Gurgaon (Haryana)

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PITAMPURA (DELHI)

Plot No. 366, 2nd Floor, Kohat Enclave, Pitampura, (Near- Kohat Metro Station) Above Allahabad Bank, New Delhi- 110034.