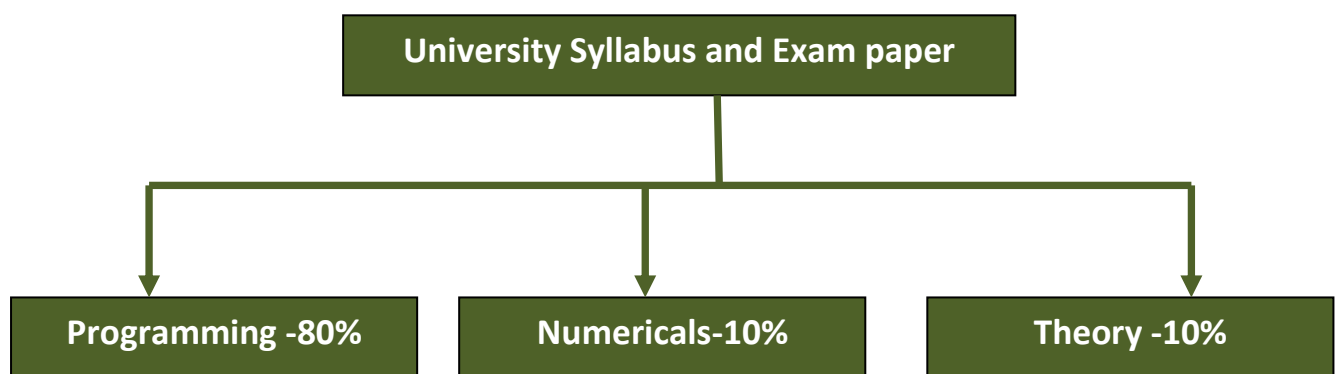


Data Structures



Live Online Lectures

(just like being in a classroom from your home or office or just anywhere)



Fees To be Paid in 2 instalments.

First 2 Lectures are Complimentary.

Total Course Fees is INR 8000/-

Course Curriculum

Part 1 : Introduction to Data Structures

- ✚ Definition Of Data Structures
- ✚ Concept of ADT
- ✚ ADT examples.

Part 2 : Stacks and their Application

- ✚ Definition of Stack
- ✚ Push(),Pop(),Peek()
- ✚ Stack Implementation Using an Array
- ✚ Infix,Prefix and postfix Expression
- ✚ Programs for Conversion of one form of expression to another.

Part 3 : Queues and their types

- ✚ Definition of Queue
- ✚ Operations on a Queue.
- ✚ Queue implementation Using an array.
- ✚ Circular Queue and its Impementation
- ✚ DEQUE

Part 4: Linked List

- ✚ Self Referential Structure
- ✚ Linked List Implementation of Stack
- ✚ Linked List Implementation of Queue
- ✚ Linked List Implementation of Circular Queue
- ✚ Doubly Linked List and its implementation
- ✚ Polynomial addition using a Linked List

Part 5: Recursion

- ✚ Concept Of Recursion
- ✚ Programs on Recursion

Part 6: Binary Trees

- ✚ Concept Of Trees
- ✚ Types Of Tree Traversals
- ✚ Numericals on Tree Traversals.
- ✚ Implementation of Binary Tree
- ✚ Implementation Of Binary Search Trees
- ✚ Numericals on Huffman Codes
- ✚ Expression Trees
- ✚ Threaded Binary Trees
- ✚ 1- Dimensional Arrays

Part 7: Balanced Trees

- ✚ Concept of Balanced Trees.
- ✚ B-Trees
- ✚ AVL Trees
- ✚ Numerical on Balanced Trees

Part 8: Sorting Algorithms

- ✚ Bubble Sort
- ✚ Selection Sort
- ✚ Quick Sort
- ✚ Heap Sort
- ✚ Merge Sort
- ✚ Shell Sort

Part 9: Searching Algorithms

- ✚ Linear Search
- ✚ Binary Search
- ✚ Hashing
- ✚ Collision in Hashing

Part 10: Graph- Part -1

- ✚ Concept and use of Graph
- ✚ Adjacency Matrix
- ✚ BFS algorithm and its implementation
- ✚ DFS algorithm and its Implementation

Part 11: Analysis Of Algorithms

- ✚ Concept of Algorithm Analysis
- ✚ Big OH , OMEGA and THETA notations
- ✚ Numericals on OH notations.

Part 12: Graph- Part -2

- ✚ Dijkstras Algorithm
- ✚ Minimum Spanning Trees
- ✚ Kruskals Algorithm
- ✚ Prims Algorithm

Part 11: GUI programming Java Swings

- ✚ **Creating Visual Interfaces**
- ✚ **Adding components like labels,buttons,text field,combo boxes etc.**
- ✚ **Adding Actionlisteners**

Part 12: Database Programming using WAMP server and Java Swings

- ✚ **Creating Databases**
- ✚ **Connecting Databases to Java Applications.**
- ✚ **Reading and Writing to Databases**
- ✚ **Displaying the data in tabulated Manner in the front end.**
- ✚ **Executing SQL queries on Databases.**

Highlights OF the Course

- + Complete Programs to be provides
- + Numericals to be given special emphasis on.
- + All codes to be made available in PDF forms.

About Junaid Khateeb

Qualification : M.E. Computer Engineering

Teaching Experience : 17 Years

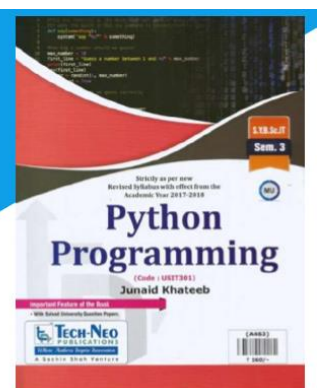
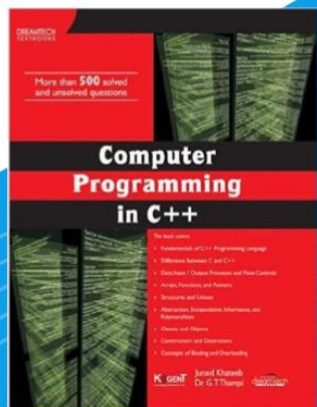
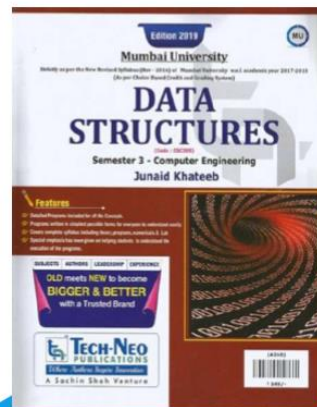
Profile: Founder of Khateeb Group of Institutes & Junkminds.com

Technologies Taught: C , C++ , JAVA , Python , Machine Learning , Artificial Intelligence , R-Programming

Concepts Taught : Object Oriented Programming, Database Management System, Operating System, Data Structures, Software Engineering, Discrete Mathematics, Analysis of Algorithms, Distributed Processing.

Number Of students trained : over 10,000 and counting.

Author of the Following books:



Connect with Junaid Khateeb

Contact: +91-9820183864

Whatsapp : 9820183864 (preferred)

Email : Junaidkhateeb.training@gmail.com

Facebook: <https://www.facebook.com/junaidkhateeb>

Instagram: @junaidkhateeb

Linkedin: www.linkedin.com/in/junaid-khateeb-72655abb

**Corporate address : Khateeb Institute of Technical Education,
203, Landmark Building, S.V. Road, Borivali (w), Mumbai.**