



DSA in C++

Complete Course

Beginner to Advance

UPCISS



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Data Structure through Object Oriented Programming Language C++

Level – 1



- Introduction to C++
- Syntax
- Output
- Variables
- Token
 - Keywords
 - Identifiers
 - Constants
 - Strings
 - Operators
- Data types
- Conditional statements

Level – 2

- Arrays
- Loops (Flow Controls)
- Structures
- Pointers
 - Single Pointer
 - Double Pointer
 - Pointer of Pointer
- Function & Scope
- Function Overloading
- Recursion

Level – 3

- Object-Oriented Programming (OOP)
 - Object Oriented Programming- a new paradigm
 - Abstraction
 - Classes & Objects
 - Polymorphism
 - Data Encapsulation
 - Data Hiding
 - Inheritance
- File Handling
- Exceptions Handling
- Operator Overloading



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Level – 4

- **Data Structures and algorithms**
- What is Algorithm and Pseudo code
- Comparison of Algorithms
- Complexities (Time & Space)
- Types of Algorithms
- Searching algorithms
 - Linear search
 - Binary search
- Sorting algorithms
 - Bubble sort
 - Selection sort
 - Insertion sort
 - Merge sort
 - Quick sort

Level – 5

- **Data Structures (Linear & Non-linear)**
 - Arrays (Static Data type)
 - Linked lists
 - Stacks (Dynamic Data type)
 - Queues
 - Trees
 - Graphs
- Various different types of Implementation
- Various different types of Traversals Technics
- **Infix, Prefix, Postfix**

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