

CPP SYLLABUS

Fundamentals of Programming

- Flowcharts
- Variables and Data types
- Conditional Statements
- Loops
- Patterns
- Functions
- Arrays
- 2D Arrays
- Strings

Object Oriented Programming

- Basics of OOPS
- Advance concepts of OOPS

Data Structure and Algorithms

- Time Complexity and Space Complexity
- Recursion
- Search and Sorting Algorithms with Arrays
- Linked List
- Stacks
- Queues
- Trees
- Generic Trees

- Binary Trees
- Binary Search Trees

Advanced Data Structures

- Priority Queues
- Hashmaps
- Tries
- Graphs

STL

- Introduction to STL

Dynamic Programming

- Introduction to Dynamic Programming
- Applications of DP