

FUNDAMENTALS OF C++

Week - 1 Module

Lec -1 = Introduction to C++ Basics Lec - 2 = Understanding OOPs in C++

Week - 3 Module

Lec -4 = Essentials of C++ Syntax Lec - 5 = Variables and Datatypes in C++

Week - 5 Module

Lec -7 = Fundamentals of C++ Programming Lec - 8 = Comparing Datatypes in C and C++

Week - 7 Module

Lec -10 = Decision Making in C++: Flow Control Basics Lec - 11 = If Statements: Checking Even Numbers

Week - 9 Module

Lec - 13 = If-Else Statements: Navigating Even-Odd Programs and Result Finder Ballet Lec - 14 = Nested If-Else Statements: Maximizing Numbers and Grades

Week - 2 Module

Lec -3 = C++ Program Structure and Inuput/Output Practical - 1 = Practising I/O in C++

Week - 4 Module

Lec -6 = Working with Datatypes and Operators in C++ Practical - 2 = Learn to use Compiler, First C Program

Week - 6 Module

Lec -9 = C++ Programming Examples: Circle Area and Simple Interest Practical - 3 = Practising with different datatypes, making identifiers, creating variables

Week - 8 Module

Lec -12 = Handling Odd Numbers and Divisibility in C++ Practical - 4 = Practising programs of finding sum, area & perimeter

Week - 10 Module

Lec - 15 = Switch Statements in C++: Introduction and Applications Practical - 5 = Practising Odd or Even Number program



FUNDAMENTALS OF C++

Week - 11 Module

Lec - 16 = Century Year and Vowel Check Programs in C++ Lec - 17 = Diving into Loops: A Fundamental Introduction

Week - 13 Module

Lec - 19 = Exploring Multiplication Table & Prime Number Programs in C++ Lec - 20 = While Loop Unveiled: Sum of Digits of a Number Calculation

Week - 15 Module

Lec - 22 = Do While Loop Demystified: Introduction and Implementation Lec - 23 = Navigating Break Statements and the Infinite Loop

Week - 17 Module

Lec - 25 = Continue Statement Introduction & Implementation Lec - 26 = Continue Statement Introduction & Implementation

Week - 19 Module

Lec - 28 = Range-Based For Loop Adventures: HCF and LCM Finder Program Lec - 29 = Introduction to Nested Loops and Their Practical Implementation

Week - 12 Module

Lec - 18 = For Loop Basics: Printing Even Numbers Practical - 6 = Practising if-else programs and result finder program.

Week - 14 Module

Lec - 21 = Reversing Numbers with While Loop and Palindrome Check Practical - 7 = Practising different questions of nested if-else and Switch statement.

Week - 16 Module

Lec -24 = Break Statement: Practical Implementation and Infinite Loop Example Practical - 8 = Practising programs of for loop and while loop.

Week - 18 Module

Lec - 27 = Factorial Finder and LCM Calculation in C++ Practical - 9 = Practising Do while loop programs

Week - 20 Module

Lec - 30 = Star Printing, Number Tree Patterns, and Multiplication Table Programs Practical - 10 = Practising break & continue statements and Infinite loop programs



FUNDAMENTALS OF C++

Week - 21 Module

Lec - 31 = Functions in Action: Sum, Max-Min, and Even-Odd Functions Lec - 32 = Function Challenges: Factorial, Prime Number, and Power Functions

Week - 23 Module

Lec - 34 = Mastering Default Arguments in C++ and Embracing Recursion, Finding Factorials Lec - 35 = Exploring Power with Recursion & Fibonacci Numbers & Arrays in C++: Introduction and Basic Operations.

Week - 22 Module

Lec - 33 = Unlocking Function Power: Extra Features and Introduction to Overloading Practical - 11 = Practising Multiplication table program and basic functions.

Week - 24 Module

Lec -36 = Array Mastery: Accessing, Traversing, and Finding Sums, Max, Min, and Avg Practical - 12 = Practising different functions program

Week - 25 Module

Lec - 37 = Array Adventures: Reversing, Merging, and Finding the 2nd Largest Element Lec - 38 = Introduction to Sorting Algorithms: Starting with Bubble Sort

Week - 27 Module

Lec - 40 = Understanding Selection Sort: Introduction and Algorithm Lec - 41 = Applying Selection Sort: Step-by-Step Implementation

Week - 26 Module

Lec - 39 = Implementing Bubble Sort: A Step-by-Step Guide Practical - 13 = Practising Array basic programs

Week - 28 Module

Lec - 42 = OOPs in C++: The Grand Finale Practical - 14 = Practising Array advanced programs