KARON INFOTECH

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C, C++ Syllabus:

C Language:

Topics	
1.	Fundamental • Introduction to programming languages • History of C • Compiler Vs Interpreter • Setting up the development environment (compiler, IDE, etc.) with plugin • Install code block in Windows • Writing and running your first C program. • Hello World Program in C
2.	C variables & Datatype • Identifiers in C • Variables and Datatypes • Constants • C comments • Type Casting
3.	Console IO Operations • Printf and Scanf • Unformatted IO Functions
4.	Operators And Expressions • Expressions and Arithmetic Operators • Relational and Logical Operators • Bitwise Operators
5.	Control Flow Statements • If Statement • Switch Statement • Unconditional Branching • While Loop • Do While Loop • For Loop • Nested Loop • Break and Continue • Goto Statement
6.	Arrays • Arrays Declaration and Initialization • Types of Arrays • Sample Programs using Arrays • Arrays as Function Parameters
7.	Strings • Introduction to Strings • Standard String Library Functions • Array of String • String Function Gets and puts
8.	Functions • Introduction and Writing Functions • Scope of Variables, Storage Classes, Pass by Value and reference • Recursion • Math Function

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9.	Pointers
	    • Introduction to Pointers
	    • Pointers as Function Parameter
	    • Pointer Arithmetic
	    • Pointers and Arrays
	Function Pointers

10.	File Handling
	    • Reading from and writing to files in C.
	    • Working with file streams (fopen, fclose, etc.).

11.	Structures & Union
	    • Declaring and Instantiating Structures
	    • Structure as Parameter and Pointer to Structure
	    • Enumerated Data Type
	Union

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C++:

Topics	
1.	Fundamental • C++ Introduction • Difference between C and C++ • C++ Feature • Variable, Data type • Keyword, Identifier • C++ Program syntax • Input & output in C++
2.	C++ Control Statement • If Else • Switch • Loop (for, do while, while) • Break Statement • Continue
3.	Array • Array in C++ • Array to function
4.	C++ Functions • C++ Function Parameters • Function Overloading • Recursion • Storage Classes
5.	C++ Object Oriented • Oops Concept • Object Class • Access Specifiers • Constructor • Copy constructor • Destructor • This pointer • Enumeration • Friend function • Math Function
6.	C++ Inheritance • Inheritance • Aggregation
7.	Polymorphism • Polymorphism • Overloading • Overriding • Virtual function
8.	Abstraction • Interface (Abstract Classes) • Data abstraction
9.	Exception Handling • Exception Handling • Try, Catch, final