


MASTER A PROGRAMMING LANGUAGE – C++

CURRICULUM

DAYS	TOPICS
DAY 1	INTRODUCTION <ul style="list-style-type: none">• History• C vs C++• Benefits of C++
	Setup and First look <ul style="list-style-type: none">• Installation• Structure of C++ program• Header Files and Main Function
DAY 2	Datatypes and Variables <ul style="list-style-type: none">• Introduction to Data types and Variables• Getting input from user• Keywords
	Operators <ul style="list-style-type: none">• Binary Operators• Expressions• Identifiers QUIZ-1
DAY 3	Controlling Statement and Operators <ul style="list-style-type: none">• Urinary and Ternary Operator• If else and types• Comment

	Iterations <ul style="list-style-type: none"> • Loops • Switch Case
DAY 4	Jumping Statement <ul style="list-style-type: none"> • Types of Jumping statement • Functions Concept
	Types of Functions <ul style="list-style-type: none"> • Recursion • Storage Classes <p>QUIZ-2</p>
DAY 5	Arrays <ul style="list-style-type: none"> • Concept • Single Dimensional
	<ul style="list-style-type: none"> • Multi-Dimensional Arrays • Functions with arrays
DAY 6	POINTERS <ul style="list-style-type: none"> • CONCEPT AND TYPES • REFERENCING CONCEPT AND RELATION TO POINTERS • FUNCTION POINTERS
	MEMORY MANAGEMENT <ul style="list-style-type: none"> • ARRAY OF POINTERS • DMA CONCEPT • STATIC VS DYNAMIC MEMORY ALLOCATIONS <p>QUIZ-3</p>

DAY 7	OBJECT ORIENTED PROGRAMMING <ul style="list-style-type: none"> • Concept(Class Object and Members of class) • Constructors and its types
	OBJECT ORIENTED PROGRAMMING DAY -2 <ul style="list-style-type: none"> • Destructor • Structs • This Pointer • Access Specifiers
DAY 8	INHERITANCE <ul style="list-style-type: none"> • Inheritance • Types • Aggregation
	POLYMORPHISM <ul style="list-style-type: none"> • Concept • Overloading • Overriding • Virtual Function <p>Quiz-4</p>
DAY 9	ABSTRACTION <ul style="list-style-type: none"> • Concept • Interfaces • Data encapsulation
	Miscellaneous <ul style="list-style-type: none"> • Enum • Math Functions • Friend Function
DAY 10	String Manipulations
	File Handling

DAY 11	Exception Handling
	Quiz-5
	Templates
DAY 12	Standard Template Library
	Concept
	Vectors
	Scope Resolution Operator
	Inline Functions and Outline functions
DAY 13	Time Library
	and
	Stdlib.h
	NAMESPACES,
	Modules,
	MACROS