

C++ - Day wise Syllabus

Day	Topics 2hours/day
1	Introduction to C++: Introduction, IDE, Basic I/O, variables & constants
2	Functions, Namespaces, Operators, Boolean expression with logical & relational operators, increment & decrement operators
3	Conditional Branching control statements: If-Else, switch-case, conditional operator
4	Conditional looping control statements & unconditional control statements: while, do-while, for, break, continue, goto
5	Arrays, Strings, Pointers, Dynamic Memory
6	File I/O, Multiple file compilation, Header files
7	Compound Data structures(Struct, Union, enum, typedef)
8	Classes and Objects, Encapsulation, Abstraction
9	Lvalue & rvalue references, Types of Member functions, Friend functions and classes
10	Inheritance
11	Function and operator overloading, Polymorphism, multiple dispatching
12	STL Containers - sequence containers



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13	STL Containers -Associative containers
14	Iterartors & Iterator classes
15	Errors and Debugging: Compile-time, Run-time & logical errors, Debugging methods, optimization methods
16	Exceptions: try-throw-catch, std exceptions, define exceptions, catch by reference, dynamic memory exceptions
17	Compilation using GNU compiler
18	Creating Libraries: Static and Dynamic Library creation
19	Makefile
20	Project