C++ syllabus

Chapter	Topics
Object Oriented Programming Principles	 What are objects, features OOPs Features Classes & objects Encapsulation Inheritance Polymorphism Data Abstraction
Introduction C++	 Rules of C++ programming Structure of C++ program C++ Tokens (Identifiers, Keywords, Constants, Operators, Special character) C++ Data types
Basic programming	 Console I/O Statements(cin, cout) Programs to perform various calculations Operators Programs to implement various operators
Control statements	 Conditional Control Statements If-else , switch-case Loops While, do while, forloop Implementing programs on conditional & loops
Arrays	 Definition, advantages Array types Single dimension Double dimension
Functions	Inline functions

	Defining a Class ,creating Objects
	Accessing Data Members using objects
Object Oriented	Calling Member Functions using objects
Programming	Implementing Array of Objects, objects as
	parameters & return type, new , this
	operators
	Scope resolution operator
	access specifiers(private, public,
	protected)
	Implementing Static Data Members Analysis of Static Maryland Statics Analysis of Stati
	Implementing Static Member Functions
Function Overloading	 What is function over loading
	Implementing overloading on various
	functions
Operator Overloading	Definition
	 About operator keyword, rules of operator
	overloading
	Overloading various operator
Constructors &	 Types (Default Constructor, Parameter
Destructors	Constructor, Copy Constructor)
	Destructors
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Friend Function &	 Friend Function definition, usage of friend
Friend classes	keyword
	Implementing of friend functions i
	Friend Class definition
Inheritance	 Definition, Advantages
	 Types of Inheritances
	(Single, Hirerchial, Multilevel, Multiple
	Hybrid)
Virtual Functions	Pure virtual function definition
Templates	Template Definition