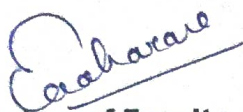


Academic Lesson Plan of Winter 2026

Department : CSE	Semester : 3rd	Name of the teaching faculty: PRIYANKA MAHARANA
Subject:	No.of days/per week	Semester from : 1ST July 2026
Programming with C++	class allotted .	No. of weeks:15 weeks
	3p/week.	Topics to be covered:
1st week	1st	Introduction to object-oriented programming
	2nd	user defined types
	3rd	structures,unions
2nd week	1st	polymorphism, encapsulation
	2nd	Getting started with C++ syntax, datatype, variables,
	3rd	strings
3rd week	1st	functions, default values in functions,
	2nd	recursion
	3rd	namespaces
4th week	1st	operators, flow control
	2nd	arrays and pointers
	3rd	Revision
5th week	1st	Abstraction mechanism: Classes, private, public
	2nd	constructors, destructors
	3rd	member data, member functions
6th week	1st	inline function,friend functions
	2nd	static members, and references
	3rd	Inheritance: Class hierarchy,derived classes
7th week	1st	single inheritance, multiple
	2nd	multilevel, hybrid inheritance
	3rd	role of virtual base class
8th week	1st	constructor and destructor execution
	2nd	base initialization using derived class constructors.
	3rd	Revision
9th week	1st	Polymorphism: Binding
	2nd	Static binding, Dynamic binding
	3rd	Static polymorphism: Function Overloading
10th week	1st	Ambiguity in function overloading
	2nd	Dynamic polymorphism: Base class pointer
	3rd	object slicing,late binding
11th week	1st	method overriding with virtual functions
	2nd	pure virtual functions,abstract classes
	3rd	Revision
12th week	1st	Operator Overloading: This pointer
	2nd	applications of this pointer
	3rd	Operator function
13th week	1st	member and non-member operator function
	2nd	member and non-member operator function
	3rd	operator overloading,operator overloading
14th week	1st	operator overloading,operator overloading
	2nd	Revision
	3rd	Exception handling: Try, throw, and catch
15th week	1st	exceptions and derived classes
	2nd	function exception declaration,unexpected exceptions
	3rd	Revision

COURSE OUTCOMES

CO.1	Define and explain the basic concepts of programming and Object-Oriented Programming using C++.
CO.2	Illustrate the use of C++ syntax, data types, operators, control statements, and functions.
CO.3	Develop programs using classes, objects, constructors, inheritance, and encapsulation concepts.
CO.4	Demonstrate polymorphism, operator overloading, and file handling techniques in C++ programs.
CO.5	Apply exception handling and modular programming techniques to create reliable C++ applications.



Signature of Faculty



HOD, CSE