

LESSON PLAN

Department: CSE

Semester:3rd

Name of Faculty: Miss. Rasmita Patra

Subject: Programming with C++(TH-1)	No.ofdays/ week Class allotted: 3	Effective From Date:01.07.2026
		Topic to be Covered:
		Theory
Week	ClassDay	UNIT 1: INTRODUCTION
1 st	1 st	Introduction to object-oriented programming, user defined types
	2 nd	structures, unions
	3 rd	polymorphism
2 nd	1 st	encapsulation
	2 nd	Getting started with C++ syntax, data- type, variables
	3 rd	Strings
3 rd	1 st	Functions, Default values in functions
	2 nd	recursion
	3 rd	Namespaces, operators
4 th	1 st	flow control
	2 nd	arrays and pointers
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
5 th	1 st	UNIT 2: Abstraction mechanism:
	2 nd	Classes, private, public
	3 rd	constructors, destructors
6 th	1 st	member data, member functions,
	2 nd	inline function, friend functions
	3 rd	static members, and references
7 th	1 st	Inheritance: Class hierarchy, derived classes
	2 nd	single inheritance, multiple
	3 rd	multilevel, hybrid inheritance
8 th	1 st	role of virtual base class
	2 nd	constructor and destructor execution
	3 rd	base initialization using derived class constructors
9 th	1 st	1. Doubt Clearing class 2. Quiz test 3. Assignment
	2 nd	UNIT 3: Polymorphism:
	3 rd	Binding, Static binding, Dynamic binding
10 th	1 st	Static polymorphism: Function Overloading
	2 nd	Ambiguity in function overloading
	3 rd	Dynamic polymorphism: Base class pointer
11 th	1 st	object slicing, late binding
	2 nd	method overriding with virtual functions
11 th	1 st	pure virtual functions
	2 nd	abstract classes

	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
12 th	1 st	UNIT 4: Operator Overloading: This pointer, applications of this pointer
	2 nd	This pointer, applications of this pointer
	3 rd	Operator function
13 th	1 st	member and non-member operator function
	2 nd	member and non-member operator function
	3 rd	operator overloading
14 th	1 st	I/O operators
	2 nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3 rd	UNIT 5: Exception handling: Try, throw, and catch
15 th	1 st	exceptions and derived classes
	2 nd	function exception declaration ,unexpected exceptions
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment

Rasmita Patra
Signature of Faculty

Rasmita Patra
Miss. Rasmita Patra
HOD, CSE (I/C)
Govt. Polytechnic, Kandhamal