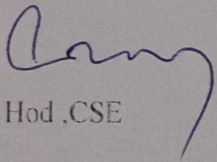# LESSON PLAN
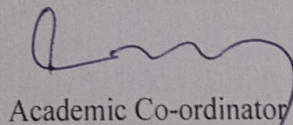
SUB: PROGRAMMING WITH C++
BRANCH:- COMPUTER SCIENCE& ENGG.
SEMESTER:3RD
NAME OF FACULTY: ABHISHEK PADHI (GF in CSE)
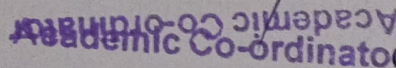

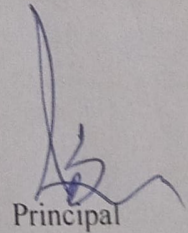# GOVERNMENT POLYTECHNIC, BHADRAK

SESSION: 2025-26

Hod ,CSE

Academic Co-ordinator

Principal
Govt. Polytechnic, Bhadrak

DEPARTMENT OF Computer Science & Engg.,

Discipline: Computer Science & Engineering	Semester:3rd,Winter/2025	Name of the Faculty: ABHISHEK PADHI, Lecturer Email ID: abhishekpadhi24@gmail.com
Subject: Programming with c++ Theroy-01	No. of Days/week:03	Start Date: 14/07/2025 End Date:15/11/2025

Week	Class Day	Theory Topics
1st	1st	Introduction to Object Oriented Programming User defined types
	2nd	• Structures, unions
	3rd	• Polymorphism, Encapsulation
2nd	1st	• Getting started with C++ syntax
	2nd	• Data type, Variables
	3rd	• Strings, Functions
	1st	• Default values in functions
3rd	2nd	• Recursion, Namespaces, operators
	3rd	• Flow control, Arrays, Pointer
4th	1st	• Abstraction mechanism
	2nd	• Classes, private, Public
	3rd	• Constructor

5th	1st		• Member data, Member functions, Constructor, Destructor
	2nd		• Inline function ,Friend functions
	3rd		• Static members & reference
6th	1st		• Inheritance & its type, Class hierarchy, Derived class
	2nd		• Role of Virtual base class, Base initialization using derived class constructor
	3rd		• Revision
7th	1st		• Polymorphism
	2nd		• Static & Dynamic binding
	3rd		• Static Polymorphism, Function overloading
8th	1st		• Dynamic Polymorphism: Object slicing
	2nd		• Base class pointer, Pure virtual function
	3rd		• Late binding ,Abstract classes
9th	1st		• Revision
	2nd		• Operator overloading
	3rd		• This pointer & application
10th	1st		• Operator function
	2nd		• Member Operator function
	3rd		• Non-member Operator function
11th	1st		• Operator overloading, I/O operators
	2nd		• Exception handling
	3rd		• Try, Throw
12th	1st		• Catch, Exception
	2nd		• Derived classes
	3rd		• Function Exception declaration
13th	1st		• Unexpected exceptions
	2nd		• Revision
	3rd		• Assessment
14th	1st		• Revision
	2nd		• Quiz Test
	3rd		• Quiz Test-1
15th	1st		• Previous year question
	2nd		• Previous year question
	3rd		• Previous year question

Abhishek Padhi

Signature of faculty