

GANAPATI INSTITUTE OF ENGINEERING AND TECHNOLOGY(POLYTECHNIC) Mathasahi , Jagatpur , Cuttack - 754200

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING LESSONPLAN

Discipline:ComputerScience & Engineering	Semester:3 RD	Name of the Faculty:S.R PATTNAIK
Subject:Programming with C++	No.of Days/week:03	StartDate: 14.07.2025 EndDate: 15.11.2025

Week	ClassDay	TheoryTopics	
1st	1st	Unit-1: INTRODUCTION TO OOPS Programming languages,oops concepts	
	2nd	User defined types and declaration	
	3rd	Polymerphism, Encapsulations	
2nd	lst	Types of user defined types – Structure, Its syntax, examples	
	2nd	Union, its syntax, examples	
	3rd	Enumeration, its syntax, examples	
3rd	1st	A first c++ program, Basic program structure	
	2nd	Variable & data types	
	3rd	Primitive data types & declarations	
lth .	lst	Non-primitive data types & declarations	
	2nd	Array & types of array, its syntax, examples	
	3rd	String literals	
	İst	Functions, default value in functions	
th	2nd	Recursions & examples, namespaces	
	3rd	Pointer & its syntax, control flow statements	
	1st	Operators & types of operators	
h	2nd	UNIT-2 ABSTRACTION MECHANISMS Concepts & syntax of class, defining a class	
	3rd	Accessing class members, defining member function	
i	İst	Creating an objects	
	2nd	Access specifier(Private, Public, Protected)	
	3rd	Inline function & key aspects of inline functions & examples	
	1st	Friend function & its examples	

	2nd	Inheritance in c++, base class & derived class	
	3rd	Types of inheritance, single inheritance	
rth	1st	Multiple inheritance with examples, multilevel inheritance with examples	
	2nd	Hybrid inheritance, Constructor, types of constructor	
	3rd	Default constroctor, Parameterised constroctor with examples	
l Oth	İst	Copy constructor with examples & destructor &its syntax	
	2nd	Quiz test	
	3rd	UNIT-3 POLYMERPHISM Polymorphism & types of polymorphism	
l 1th	1st	Static binding and dynamic binding Function overloading in c++ with examples	
	2nd 3rd	Compile time polymorphism & runtime polymorphism	
12th	1st	Method overloading with examples Virtual function, Pure virtual function	
	2nd 3rd		
13th	lst	UNIT-4 OPERATOR OVERLOADING Operator overloading & its example	
	2nd	This pointer & its application of this pointer	
	3rd	Member & non member operator function	
14th	lst I/O Operators		
	2nd	Reading and writing to fields	
	3rd	UNIT-5 EXCEPTION Exception overview, exception keyword	
15th	1st	Try, throw, catching exceptions	
	2nd 3rd	Declaring exception, Unexpected exceptions Revision & Semester Question & Answer	

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