



**SYNERGY SCHOOL OF
ENGINEERING,DKL**

**LESSON PLAN
Session (2023-2024)**

Discipline: Computer Science & Engineering	Semester: 3rd	Name of the Faculty: Smruti Mayee Mishra Email ID: Smrutisaina@gmail .com
Subject: Object Oriented Methodology	No. of Days/week: 04	START DATE: 21/08/23 END DATE: 04/12/23

Week	Class Day	Theory/Practical Topics
1st	1st	UNIT-I: Object Oriented Programming OOPS concepts and terminology
	2nd	Benefit of OOPS Application of OOPS
	3rd	Discussion of Questions.
	4th	UNIT-II: INTRODUCTION TO JAVA Execution Model of Java The Java Virtual Machine A First Java Program
2nd	1st	Variables, constants and Data types
	2nd	Casting and Type Casting Widening and Narrowing Conversions
	3rd	Operators and Expressions
	4th	Arithmetic and Relational operators with example

3rd	1st	Logical , increment and decrement operators
	2nd	Bitwise operators
	3rd	Control Flow Statements(if,if-else,switch)
	4th	Loop(for,while,do-while)
4th	1st	Program using loops
	2nd	Arrays, Non-Primitive Data types
	3rd	String
	4th	UNIT-III: Objects And Classes Concept and Syntax of class
5th	1st	Defining a Class Defining Method & Access Control
	2nd	Creating an Object Accessing Class Members Instance Data and Class Data
	3rd	Constructors Types of constructor
	4th	Access specifiers Types of access specifier
6th	1st	Smart Class using NPTEL Reference
	2nd	UNIT-IV: String Builder and String Buffer
	3rd	Methods and Messages
	4th	Parameter Passing Comparing and Identifying Objects
7th	1st	Video content class using NPTEL Reference
		UNIT-V: Inheritance in Java Types of inheritance
	2nd	Single Inheritance(Example) Multi-level Inheritance(Example)
	3rd	Multi Hierarchical Inheritance Hybrid Inheritance
	4th	Quiz Test-I

		Types of Polymorphism
	2nd	Method Overloading Method Overriding
	3rd	Run time Polymorphism
	4th	
9th		UNIT-VII: Packages: putting classes together
	1st	Introduction to Java API Packages Using System Packages Using a Package
	2nd	Static Import Naming Convention
	3rd	Creating Packages Accessing a Package
	4th	Adding a Class to Package Hiding Classes
10th	1st	UNIT-VIII: Java files and i/o What is a stream?
	2nd	Reading and writing to files(only txt files)
	3rd	Input and Output Stream
	4th	Manipulating Input data
11th	1st	Opening and Closing Streams
	2nd	Predefined streams
	3rd	File handling Classes and Methods
	4th	UNIT-IX: Exceptions Overview Types of exception
	1st	Exception Keywords Exceptions(program)
	2nd	Catching Exceptions
	3rd	Using Finally Statement

	4th	Exception Methods
13th	1st	Defining and throwing exceptions
	2nd	Errors and Runtime Exceptions
	3rd	Errors and Runtime Exceptions program
	4th	Handling of exception
14th	1st	Try, throw and catch program
	2nd	Using finally statement
	3rd	Throwing our own exceptions
	4th	Quiz Test-II
15th	1st	Revision test after syllabus coverage
	2nd	Assignment Evaluation
	3rd	Discussing previous year question paper after finishing the syllabus
	4th	Class Test

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