SYNERGY SCHOOL OF ENGINEERING,DKL

LESSON PLAN
Session (2024-2025)

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: 01/07/24 END DATE: 08/11/24

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**

8th	1st	**UNIT-VI: Polymorphism** Types of Polymorphism
	2nd	Method Overloading Method Overriding
	3rd	Run time Polymorphism
	4th	**UNIT-VII: Packages: putting classestogether** Introduction to Java API Packages
9th	1st	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
12th	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

Smruti Mayee Mishra

PREPARED BY:

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