LESSON PLAN: Object Oriented Methodology

Discipline :	Computer Science and Engineering			
Faculty :	Er. Namrata Naik			
Semester :	3rd (Third)			
Duration :	14 WEEKS (1st August 2023 to 30th November 2023)			
Work Load :	Lecture :	4 Lectures per week (50 minutes per Class)		
	Practical:	2 Lab Classes (100 minutes per class) per week		

Week	Week Day	Theory	Week Day	Practical (Group: 1)
1st	1st	Programming Languages Object Oriented Programming	1st	Revision of Programming Concept
	2nd	OOPS concepts and terminology	1st	Revision of Programming Concept
	3rd	Benefit of OOPS Application of OOPS	2nd	Revision of Programming Concept
	4th	Revision of Chapter 1	2nd	Revision of Programming Concept
2nd	5th	What is Java? Execution Model of Java	1st	Practice Creating Classesand Object functions
	6th	The Java Virtual Machine A First Java Program	1st	Practice Creating Classes and Object Functions
	7th	Variables and Data types Primitive Data types & Declarations	2nd	Practice Creating Classes And Object functions
	8th	Numeric and Character Literals String Literals	2nd	Practice Creating Classes And Object Functions
3rd	9th	Arrays, Non-Primitive Data types	1st	Practice Creating Classes And Object functions
	10th	Casting and Type Casting Widening and Narrowing Conversions	1st	Practice Creating Classes andObject functions
	11th	Operators and Expressions	2nd	Practice Creating Classes And Object functions
	12th	Control Flow Statements	2nd	Practice Creating Classes and Object functions
4th	13th	Revision of chapter 2	1st	Practice Creating Classes And Object functions
	14th	Concept and Syntax of class Defining a Class	1st	Practice Creating Classes and Object functions
	15th	Concept and Syntax of Methods Defining Methods	2nd	Practice Creating Classes And Object functions
	16th	Creating an Object Accessing Class Members	2nd	Practice Creating Classes and Object functions
5th	17th	Instance Data and Class Data	1st	Practice Creating Classes andObject functions
	18th	Constructors	1st	Practice Programming using Constructors
	19th	Access Specifiers Access Modifiers	2nd	Practice Programming using Access Modifiers
	20th	Access Control	2nd	Practice Programming using Access Modifiers

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6th	21st	Revision of Chapter 3	1st	Lab Test on Access Modifiers in Java
	22nd	String Builder and String Buffer	1st	Practice Programming String Buffer
	23rd	Methods and Messages	2nd	Practice Programming String Buffer
	24th	Parameter Passing	2nd	Practice Classes and Objects
7th	25th	Comparing and Identifying Objects	1st	Practice Classes and Objects
	26th	Revision of Chapter 4	1st	Lab Test on Parameter Passing in Java
	27th	Inheritance in Java Use of Inheritance	2nd	Practice of Java Inheritance Concept
	28th	Types of Inheritance	2nd	Practice of Java Inheritance Concept
8th	29th	Single Inheritance	1st	Practice of Java Inheritance Concept
	30th	Multi-level Inheritance	1st	Practice of Java Inheritance Concept
	31st	Hierarchical Inheritance	2nd	Practice of Java Inheritance Concept
	32nd	Hybrid Inheritance	2nd	Practice of Java Inheritance Concept
9th	33rd	Revision of Chapter 5	1st	Practice of Java Inheritance Concept
	34th	Types of Polymorphism	1st	Practice of Java Polymorphism Concept
	35th	Method Overloading	2nd	Practice of Java Polymorphism Concept
	36th	Method Overloading	2nd	Practice of Java Polymorphism Concept
10th	37th	Run time Polymorphism	1st	Practice of Java Polymorphism Concept
	38th	Run time Polymorphism	1st	Practice of Java Polymorphism Concept
	39th	Method Overriding	2nd	Practice of Java Polymorphism Concept
	40th	Method Overriding	2nd	Practice of Java Polymorphism Concept
11th	41st	Revision of Chapter 6	1st	Practice of Java with Add – on Packages
	42nd	Introduction Java API Packages	1st	Practice of Java with Add – on Packages
	43rd	Using System Packages Naming Convention	2nd	Practice of Java with Add – on Packages
	44th	Creating Packages Accessing a Package	2nd	Practice of Java with Add – on Packages
12th	45th	Using a Package Adding a Class to Package	1st	Practice of Java with Add – on Packages
	46th	Hiding Classes Static Import	1st	Practice of Java with Add – on Packages
	47th	Revision of Chapter 7	2nd	Practice of Java with Add – on Packages

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	48th	What is a stream ? Reading and writing to files (only txt files)	2nd	Revision of Java Programs
13th	49th	Input and Output Stream Manipulating Input data	1st	Revision of Java Programs
	50th	Opening and Closing Streams Predefined streams	1st	Revision of Java Programs
	51st	File handling Classes and Methods	2nd	Revision of Java Programs
	52nd	Exceptions Overview Exception Keywords	2nd	Revision of Java Programs
14th	53rd	Catching Exceptions Using Finally Statement	1st	Java Practical Test
	54th	Exception Methods Declaring Exceptions	1st	Java Practical Test
	55th	Defining and throwing exceptions Errors and Runtime Exceptions	2nd	Java Practical Test
	56th	Revision of Chapter 8 and 9	2nd	Java Practical Test

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