

LESSON PLAN

Department: CSE			Semester: 5 th	Name of Faculty: Sri Dixit Pradhan
Subject: JAVA (TH-3A)	No. of days/ week Class allotted: 3	Effective From Date : 01.07.2026		Topic to be Covered:
		Theory		
Week	Class Day	UNIT 1: Introduction to Java:		
1 st	1 st	History and features of Java Setting up the Java Development Kit (JDK)		
	2 nd	Understanding the Java Virtual Machine (JVM)		
	3 rd	Basic Java syntax: data types, variables, operators, control flow statements (if-else, switch, loops)		
2 nd	1 st	Input/Output operations (using Scanner and System.out)		
	2 nd	Writing a Simple Program , Compiling and executing , Create Packaged class		
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment		
3 rd	1 st	UNIT 2: Introduction To Object Oriented Programming: Basic concepts of OOPs: objects, classes, data encapsulation, inheritance, Polymorphism etc.		
	2 nd	Fundamentals of Class & Object,		
	3 rd	New Keyword, reference variable, Members methods of a class,		
4 th	1 st	Access modifiers: public, private, protected, default		
	2 nd	Encapsulation: Hiding data through access modifiers , Access Control		
	3 rd	Static Methods, Static Variables, Static Block		
5 th	1 st	Constructor, Overloading methods, Overloading constructors		
	2 nd	Using of final keyword, Finalize method		
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment		
6 th	1 st	UNIT 3: Inheritance: Basics of Inheritance, members accessibility in inheritance		
	2 nd	Types of inheritance: Single, multilevel, hierarchical		
	3 rd	Super keyword. Method overriding Final keyword (for classes, methods, and variables).		
7 th	1 st	Dynamic Method Dispatch, Abstract class, Preventing Overriding, Preventing Inheritance		
	2 nd	Interfaces: Defining and implementing interfaces		
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment		
8 th	1 st	UNIT 4: Interfaces: Purpose of interface Defining an interface		
	2 nd	implementing interfaces Interface reference variables		
	3 rd	Interface with variables		
9 th	1 st	Extending interfaces		

	2 nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3 rd	UNIT 5: Arrays and Strings: Arrays: declaring and initializing arrays, accessing array elements
10 th	1 st	Arrays: declaring and initializing arrays, accessing array elements
	2 nd	Multidimensional arrays
	3 rd	String manipulation: creating strings, string methods (length, concat, substring, etc.)
11 th	1 st	Wrapper classes: Integer, Float, Double, etc.
	2 nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3 rd	UNIT 6: Exception Handling and File Handling : Exceptions: types of exceptions, try-catch blocks, finally block
12 th	1 st	Exceptions: types of exceptions, try-catch blocks, finally block
	2 nd	Throwing exceptions
	3 rd	Custom exceptions
13 th	1 st	File input/output: reading from and writing to files
	2 nd	Using File Input Stream, File Output Stream, Buffered Reader, Buffered Writer
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
14 th	1 st	UNIT 7: Multithreaded programming: Basics of threads, Java threaded model
	2 nd	defining threads using Runnable interface
	3 rd	defining threads using Thread superclass,
15 th	1 st	Multiple threads, Thread Priority values,
	2 nd	Thread Synchronization Using synchronized blocks
	3 rd	1. Doubt Clearing class 2. Quiz test 3. Assignment

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Signature of Faculty

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