



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL

LESSON PLAN SESSION: (2026-2027)

Discipline: Computer Science & Engineering	Semester: 5th, Winter-2026	Name of the Faculty: Smrutimayee Mishra Email-ID: smrutisaina@gmail.com
Subject: Programming with Java (CSEPE 301A)	No of Days/Week: 03	Start Date: 07/07/2026 End Date: 05/11/2026

Week	Class Day	Theory Topics
1ST	1ST	Introduction to Java and History
	2ND	Features of Java and JVM Architecture
	3RD	Installing JDK and Setting up Environment
2ND	1ST	Java Program Structure
	2ND	Data Types and Variables
	3RD	Operators in Java
3rd	1ST	Control Statements (if-else, switch)
	2ND	Looping Statements (for, while, do-while)
	3RD	Input/Output using Scanner and System.out
4th	1ST	Writing, Compiling and Executing Programs
	2ND	Packages and Packaged Classes
	3RD	Assignment-1 / Practice Session
5th	1ST	OOP Concepts: Objects and Classes
	2ND	Creating Classes and Objects
	3RD	Members and Methods of a Class
6th	1ST	Constructors and Types of Constructors
	2ND	Method Overloading
	3RD	Constructor Overloading

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7th	1ST	Access Modifiers
	2ND	Encapsulation and Access Control
	3RD	Static Variables, Methods and Blocks
8th	1ST	Final Keyword and Finalize Method
	2ND	Introduction to Inheritance
	3RD	Types of Inheritance
9th	1ST	Super Keyword
	2ND	Method Overriding
	3RD	Dynamic Method Dispatch
10th	1ST	Abstract Classes
	2ND	Preventing Inheritance and Overriding
	3RD	Introduction to Interfaces
11th	1ST	Implementing Interfaces
	2ND	Extending Interfaces and Interface Variables
	3RD	Arrays and Multidimensional Arrays
12th	1ST	String Class and String Methods
	2ND	Wrapper Classes
	3RD	Exception Handling Basics
13th	1ST	Try-Catch-Finally, Throw and Throws
	2ND	Custom Exceptions
	3RD	File Handling Concepts
14th	1ST	FileInputStream, FileOutputStream
	2ND	BufferedReader and BufferedWriter
	3RD	Introduction to Multithreading
15th	1ST	Runnable Interface,
	2ND	Thread Class and Synchronization
	3RD	Revision

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Prepared By: 02/06/26

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