



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING  
LESSON PLAN

<b>Discipline: Computer Science &amp; Engineering</b>	<b>Semester: 5<sup>th</sup></b>	<b>Name of the Faculty: Baninanda Acharya</b>
<b>Subject : Programming with Java</b>	<b>No.of Days/week: 03</b>	<b>Start Date:01.07.2026</b> <b>End Date:15.11.2026</b>

Week	Class Day	Theory Topics
1st	1st	History and Features of Java
	2nd	Understanding the JDK and JVM
	3rd	Basic Java Syntax:Data types,variables , operators, Control flow Statements(if-else,switch,loops)
2nd	1st	Input /Output Operations(Using Scanner and System.out)
	2nd	Writing a Simple Program and Compiling and Executing the Program
	3rd	Create Package Class
3rd	1st	Basic Concepts Of OOPS:Objects,Classes,data encapsulation,Inheritance and Polymorphism etc
	2nd	Fundamentals Of Class and Objects
	3rd	New Keyword,reference variable,Members methods of a class
4th	1st	Access modifiers:public,private,protected,default
	2nd	Encapsulation:Hiding data through access modifiers,access control
	3rd	<b>Class Test-1</b>
5th	1st	Static Methods,Static Variables,Static Block
	2nd	Constructor,Overloading methods,Overloading Constructors
	3rd	Using of final keyword,Finalize method
6th	1st	QuestionAnswerDiscussion
	2nd	Basics of Inheritance.members accessibility in Inheritance
	3rd	Types of Inheritance:Single,multilevel,hierarchical
7th	1st	Super keyword and Method Overriding
	2nd	Final keyword(for classes,methods and variables)
	3rd	Dynamic Method Dispatch,Abstract Class,Preventing Overriding,Preventing Inheritance
8th	1st	Purpose Of Interface and Defining an Interface

	2nd	Implementing Interface
	3rd	Interface reference variables
9th	1st	Interface with variable
	2nd	Extending Interfaces
	3rd	What is Array, Declaring and Initializing arrays, accessing array elements
10th	1st	Multidimensional Arrays
	2nd	String manipulation: creating strings, string methods (length, concat, substring etc.)
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11th	1st	Wrapper classes: Integer, Float, Double
	2nd	Exceptions, Types of exceptions, try-catch blocks, finally block
	3rd	Throwing exceptions
12th	1st	Custom exceptions
	2nd	File input/output: reading from and writing to files
	3rd	Using File Input Stream, File Output Stream, Buffered Reader, Buffered Writer
13th	1st	Class Test-2
	2nd	Basics of threads
	3rd	Java threaded model
14th	1st	Defining threads using Runnable interface
	2nd	Defining threads using Thread superclass
	3rd	Multiple threads, Thread Priority values
15th	1st	Thread Synchronization Using synchronized blocks
	2nd	Question Answer Discussion
	3rd	Question Answer Discussion

B. Achearye  
22.06.26  
Sign of faculty

Br. Lecturer  
Dept. of Computer Science & Engg.  
Sign of Sr. Lect.  
22.6.26

Sign of Principal  
22/6/26