

DEPARTMENT OF COMPUTER SCIENCE & DESIGN

Lesson Plan & Work-done Diary for AY:2026-27, ODD Semester

Course with Code: Object Oriented Programming with JAVA -1BCS302				Faculty: Mrs. Divya N			Semester & Section: III	
Class No.	Date Planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1								
1		Bridge Course	PPT					
2		Bridge Course	PPT					
3		Introduction to the Course	PPT					
4		Object-Oriented Programming (Two Paradigms, Abstraction, the three OOP principles),using Blocks of Code, Lexical Issues	PPT					
5		The Primitive Types, Variables, Type Conversion and Casting	PPT					
6		Automatic Type Promotion in Expressions, Arrays, Arithmetic Operators, Relational Operators, Boolean Logical Operators	PPT					
7		The Assignment Operator, The ? Operator, Operator Precedence, Using Parentheses.	PPT					
8		Control Statements: Java's Selection Statements, Iteration Statements	PPT					
9		The For Each Version of the for Loop, Local Variable Type Inference in a for Loop	PPT					
10		Nested Loops), Jump Statements (Using break, Using continue, return).	PPT					



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MODULE-2								
11		Class Fundamentals, Declaring Objects, Assigning Object Reference Variables	PPT					
12		Introducing Methods, Constructors	PPT					
13		The 'this' Keyword, and Garbage Collection.	PPT					
14		Overloading Methods, Using Objects as Parameters	PPT					
15		Argument Passing, Returning Objects	PPT					
16		Recursion ,Introducing Access Control	PPT					
17		Understanding static, Introducing final	PPT					
18		Introducing Nested and Inner Classes and Revision	PPT					



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MODULE-3								
19		Inheritance: Inheritance Basics, Using super	PPT					
20		Creating a Multilevel Hierarchy, When Constructors Are Executed,	PPT					
21		Method Overriding, Dynamic Method Dispatch	PPT					
22		Using Abstract Classes, Using `final` with Inheritance, Local Variable Type Inference and Inheritance	PPT					
23		The Object Class. Packages: Packages, Packages and Member Access	PPT					
24		Importing Packages, 2 Interfaces: Interfaces, Default Interface Methods	PPT					
25		Use static Methods in an Interface,	PPT					
26		Private Interface Methods, Revision	PPT					

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MODULE-4								
27		Exceptions: Exception-Handling Fundamentals, Exception Type	PPT					
28		Uncaught Exceptions, Using try and catch, Multiple catch Clauses	PPT					
29		Nested try Statements, throw, throws, finally	PPT					
30		Java's Built-in Exceptions, Creating Your Own Exception Subclasses	PPT					
31		Chained Exceptions. Multithreaded Programming: The Java Thread Model	PPT					
32		The Main Thread, Creating a Thread, Creating Multiple Threads	PPT					
33		Using isAlive() and join(), Thread Priorities	PPT					
34		Obtaining a Thread's State, Revision	PPT					

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MODULE-5								
35		Enumerations, Type Wrappers and Autoboxing: Enumerations (Enumeration Fundamentals, The values() and valueOf() Methods),	PPT	1				
36		Type Wrappers (Character, Boolean, The Numeric Type Wrappers)	PPT	2				
37		Autoboxing (Autoboxing and Methods, Autoboxing/Unboxing Occurs in Expressions)	PPT	3				
38		Autoboxing/Unboxing Boolean and Character Values,	PPT	4				
39		Generics: A Simple Generics Example, A Generic Class with Two Type Parameters	PPT	5				
40		The General Form of a Generic Class.	PPT	6				
41		Revision	PPT	7				
42		Revision	PPT	8				

DEPARTMENT OF COMPUTER SCIENCE & DESIGN

	Activity	Planned	Actual	Remarks
1	Theory Classes	42		
2	Assignments/ Quizzes/ Self-study	1/5		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100 %		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	

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Class No.	Date planned (DD/MM M)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
Programming Experiments								
1		INTRODUCTION	PPT					
2		Develop a Java program to add TWO matrices of suitable order N.	PPT					
3		Develop a stack class to hold a maximum of 10 integers with suitable methods. Develop a Java main method to illustrate Stack operations.	PPT					
4		Create a Java class called Student with the USN, Name, Branch, Phone details as variables within it. Write a Java program to create N Student objects and print the USN, Name, Branch, and Phone of these objects with suitable headings.	PPT					
5		Develop a Java program to create a class named Shape. Create three sub classes, namely: circle, triangle and square. Each class has two member functions named draw and erase.	PPT					

DEPARTMENT OF COMPUTER SCIENCE & DESIGN

		Demonstrate the concepts of polymorphism by developing appropriate methods, defining member data, and implementing the main program	PPT					
6		Develop a Java program to create an interface Resizable with methods resizeWidth(int width) and resizeHeight(int height) that allow an object to be resized. Create a class Rectangle that implements the Resizable interface and implements the resize methods.	PPT					
7		ASSIGNING MICRO PROJECT						
8		Develop a Java program to create a package named mypack and import & implement it in a suitable class.						
9		Develop a Java program to raise a custom exception (user-defined exception) for DivisionByZero using try, catch, throw and finally.	PPT					
10		Develop a program to create a class MyThread with a class constructor, call the base class constructor, using super and start the thread. The run method of the class starts after this. It can be observed that both main thread and created child thread are executed concurrently.	PPT					



DEPARTMENT OF COMPUTER SCIENCE & DESIGN

11		Develop a Java program using an enumeration called Department containing CSE, ISE, ECE, and MECH. Accept a department name as input and display the selected department using valueOf().	PPT					
12		Develop a Java program to read the marks of three subjects as strings, convert them into wrapper objects, calculate the total and average using autoboxing/unboxing and display the result.	PPT					
13		Demonstration of micro Project						
14		LAB INTERNAL						

DEPARTMENT OF COMPUTER SCIENCE & DESIGN

	Activity	Planned	Actual	Remarks
1	LAB Session	28		
2	Assignments/ Quizzes/ Self-study	1		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	1		
5	ICT based Teaching (% of usage in Curriculum)	100 %		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	