

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

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

Course with Code: Object Oriented Programming with Java Lab- 1BCS302					Faculty: SUMA H C			Semester : 1 st H	
Lab No.	Batch No.	Date Planned	Experiments to be covered	TLP Planned	Lab No.	Date of Conduction	Experiments Covered	TLP Executed	Remarks if any deviation
1.	B1		Introduction, sample programs	Chalk & Talk, Dev C++					
	B2								
	B3								
2.	B1		1. Develop a Java program to add TWO matrices of suitable order N.	Chalk & Talk, Dev C++	1.				
	B2								
	B3								
3.	B1		2. Develop a stack class to hold a maximum of 10 integers with suitable methods. Develop a Java main method to illustrate Stack operations. 50: Grade F Choose a suitable control structure to implement this logic efficiently.	Chalk & Talk, Dev C++	2.				
	B2								
	B3								

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

4.	B1		3. 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.	Chalk & Talk, Dev C++	3.				
	B2								
	B3								
5.	B1		4. 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. Demonstrate the concepts of polymorphism by developing appropriate methods, defining member data, and implementing the main program.	Chalk & Talk, Dev C++	4.				
	B2								
	B3								
6.	B1		5. 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.	Chalk & Talk, Dev C++	5				
	B2								
	B3								

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

7.	B1		6. Develop a Java program to create a package named mypack and import & implement it in a suitable class.	Chalk & Talk, Dev C++	6				
	B2								
	B3								
8.	B1		7. Develop a Java program to raise a custom exception (user-defined exception) for DivisionByZero using try, catch, throw and finally.	Chalk & Talk, Dev C++	7				
	B2								
	B3								
9.	B1		8. 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	Chalk & Talk, Dev C++	8				
	B2								
	B3								

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

			concurrently.						
10	B1		9. 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.	Chalk & Talk, Dev C++	9				
	B2								
	B3								
11	B1		10. 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.	Chalk & Talk, Dev C++	10				
	B2								
	B3								

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	Activity	Planned	Actual	Remarks
1	Lab Classes	11		
2	Assignments/ Quizzes/ Self-study	2		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	2		
5	ICT based Teaching (% of usage in Curriculum)	100%		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	