

Department of Computer Science & Design

Lesson Plan & Work-done Diary for AY: 2024-25, ODD Semester

Course with Code: OO Pattern Lab-BCGL504				Faculty: Darshini Y			Semester & Section: V	
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
1.		Design and implement ShapeFactory class that generates different types of Shape objects (Circle, Square, Rectangle) based on input parameters using Factory Design Pattern.	Lab Observation					
2.		Design and Implement an Abstract Factory class to create families of related or dependent objects with respect to decathlon store without specifying their concrete classes using Abstract Factory.	Lab Observation					
3.		Design and implement a complex object like a House using a step-by-step Builder pattern, allowing different representations of the house (wooden, brick, etc.).	Lab Observation					
4.		Design and Implement to Extend a Coffee object with dynamic features (e.g., milk, sugar, whipped cream) using Decorators.	Lab Observation					
5.		Design and Implement a Logger class ensuring a single instance throughout the application.	Lab Observation					
6.		Design and implement an Adapter Pattern for a Music System.	Lab Observation					
7.		Design and Implement an Observer pattern for a news agency to notify subscribers of updates.	Lab Observation					

8.		Design and Implement a Façade pattern for home theatre system.	Lab Observation					
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9.		Design and Implement a Template Method for Document Processing (word, pdf, excel)	Lab Observation					
10.		Design and Implement weather monitoring system that notifies multiple display devices whenever the weather conditions change that follows the Observer Design Pattern.	Lab Observation					
11.		Design and Implement a Proxy pattern to control access to an object (e.g., a protected resource or remote service).	Lab Observation					
12.		Design and Implement a Mediator pattern to manage communication between a set of objects (e.g., chat room with multiple participants).	Lab Observation					
	Activity		Planned	Actual		Remarks		
1	No of Labs		12					
2	Assignments/ Quizzes/ Self-study		-					
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:	