Computer Engineering
(Academic Year :2023-2024)

Course Code: CSL304	
Course Name: Skill based Lab Course: Object Oriented Programming with Java	
Course Teacher: Prof. Parshvi Shah	
Lab Outcomes (CO): *At the End of the course students will be able to*	
CSL304.1	**Demonstrate fundamental programming constructs**
CSL304.2	**Illustrate the concept of packages, classes, and objects**
CSL304.3	**Apply the concept of strings, arrays, and vectors**
CSL304.4	**Implement the concept of inheritance, exception handling and multithreading**
CSL304.5	**Develop real world application using libraries/GUI, Database in Java**

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(Approved by AICTE & Affiliated to University of Mumbai)

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Course Lesson Plan

Sr. No.	Proposed Date	Actual Date	Topics	CO	Teacher's Remark	HoD's Remark
1	19-07-23		Introduction of subject, Mini project information			
2	21-07-23		Basic Programming construct: Variables, Data types, operators	CSL304.1		
3	24-07-23		Introduction to OOP concept	CSL304.1	Quiz 1	
4	27-07-23		Class, object, data hiding, constructors, constructor overloading	CSL304.2		
5	31-07-23		Conditional statement, loops, switch	CSL304.1		
6	03-08-23		Arrays 1D,2D	CSL304.3	Quiz 2	
7	07-08-23		Static Keyword	CSL304.2		
8	10-08-23		Object passing as parameter	CSL304.2		
9	14-08-23		Object passing as parameter, Packages in java, types, and User Defined package	CSL304.2	Quiz 3	
	15-08-23		Independence Day			
	16-08-23		Parsi New Year			
10	17-08-23		Types of inheritance, Method overriding, super, abstract class and abstract method	CSL304.4		
11	21-08-23		final, Multiple inheritance using interface, Multiple inheritance using interface, extends keyword	CSL304.4		
12	24-08-23		Strings and Strings Buffer	CSL304.3	Quiz 4, Assignment 1	
	28-08-23 to 30-08-23		Unit Test-1			
13	04-09-23		Swing class in JAVA	CSL304.5		
14	07-09-23		Introduction to JDBC and JDBC connectivity	CSL304.5		
15	11-09-23		Introduction to JDBC and JDBC connectivity	CSL304.5	Quiz 5	
16	14-09-23		Exception handling using try, catch, finally, throw and throws,	CSL304.4		
17	18-09-23		Multiple try and catch blocks, user defined exception	CSL304.4	Quiz6	
	19-09-23 to		Shri Ganesh Festival			

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	22-09-23					
18	25-09-23		Thread lifecycle, thread class methods, creating threads using extends	CSL304.4		
	28-09-23		Anant Chaturdashi			
	02-10-23		Gandhi Jayanti			
19	05-10-23		Thread lifecycle, thread class methods, creating threads using extends	CSL304.4	Quiz 7, Assignment 2	
	09-10-23 to 13-10-23		Unit Test-2			
20	16-10-23		Multithreading	CSL304.4		
21	19-10-23		Remedial lecture	All CO	Quiz 8	
			University ESE Examination			

Textbooks:

1   Herbert Schildt, 'JAVA: The Complete Reference', Ninth Edition, Oracle Press.

2   E. Balagurusamy, 'Programming with Java', McGraw Hill Education

References:

1   Ivor Horton, "Beginning JAVA", Wiley India.

2   "JAVA Programming", Black Book, Dreamtech Press.

3   "Learn to Master Java programming", Staredu solutions

Digital material:

1   www.nptelvideos.in

2   www.w3schools.com

3   www.tutorialspoint.com

Course Instructor: Prof. Parshvi Shah