SCHEME OF COURSE WORK

Course Details:

Course Title	: OBJECT ORIENTED PROGRAMMING LAB							
Course Code	: 15CT1113 L	ТΡ	С	:0032				
Program:	: B.Tech.							
Specialization:	: Information Technology							
Semester	: IV							
Prerequisites	: Computer programming through C and Data structures using C Labs							
Courses to whic	h it is a prerequisite : Web Programming Lab							

Course Outcomes (COs):

1	Use Object oriented Programming concepts
2	Apply multi-threading.
3	Use Exception Handling.
4	Create GUI based applications using AWT.
5	Develop network based applications.

CourseOutcome Versus ProgramOutcomes Versus Program Specific Outcomes:

COs	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1	3	3			3	2							2		
CO-2	2	3										3	2		
CO-3	3	3	2	3	3				2				3		
CO-4	3	3	3										3		
CO-5	3	3	3		3					2			3		

3 - Strongly correlated, 2 - Moderately correlated, 1-Weakly correlated, Blank – No correlation

Assessment Methods:

Lab Internal Exam/Day-to-Day Analysis (observation, record and viva)

Teaching-Learning and Evaluation

WEEK	TOPIC / CONTENTS DEVELOP JAVA PROGRAMS	COURSE Outcomes	Sample questions	TEACHING- LEARNING STRATEGY	ASSESSMENT METHOD & SCHEDULE
1	That prints welcome dear user followed by user name,Printing multiplication table, Printing prime numbers upto an integer	CO-1	 Write a program to print the multiplication table (till 20) of a given number. 	→Lecture →PPT	Day-to-Day
2	To calculate Perimeter and area of rectangle, fibonaci sequence	CO-1		→Lecture →PPT	Analysis Lab-Internal-I (Week 9)
3	Matrix multiplication, String palindrome or not, sorting names in ascending order	CO-1	 Create a class Rectangle. The class has attributes length and width. It should have 	Lecture 상 Discussion	
4	Inheritance hierarchy, Abstract class shape	CO-1	methods that calculate the perimeter and areaof the rectangle. It should have readAttributes method to read length and width from user. 2. Write a program to create an abstract class named Shape that contains an empty method named numberOfSides().Provide three classes named Trapezoid, Triangle and Hexagon such that each one of the classes extends the class Shape. Each one of the classes contains only the method numberOfSides () that shows the number of sides in the given geometrical figures.(Use Runtimepolymorphism).	Y Lecture Discussion	
5	Illustrates packages	CO-1		୪ Lecture ୪ PPT	
6	Demonstrate wrapper classes, roots of quadratic equation, Vector class	CO-1	displays the number of characters, lines and	る Lecture と PPT と Discussion	

19/20	END EXAM				
18	LAB INTERNAL-II				
	Simple client/server illustration	CO-5	 Write a program that implements a simple client/server application. The client sends data to a server. The server receives the data, uses it to produce a result, and then sends the result back to the client. The client displays the result on the console. 	∀ Lecture ∀ Discussion	
16	JTable illustration	CO-4	 handling mouse events with adapter classes. Write a program that illustrates JTabbedPane, JScrollPane and JTable. 	∀ Lecture ∀ Discussion	
15	Handling mouse events, simple calculator, Traffic light	CO-4	another text field, when the button named "Compute" is clicked. 2. Write a program for	Y Lecture Y PPT	Lab-Internal-II (Week 18)
14	Graphics in windowed environment, AWT controls	CO-4	text field, and computes its factorial Value and returns it in	ど Lecture ど PPT	Day-to-Day Analysis
13	Applet that displays simple message,	CO-4	1. Develop an applet that	X Lecture X PPT	-
11 12	Multithreading Producer consumer problem	CO-2	-	8 Lecture 8 PPT 9 Lecture 9 PPT	-
10	Exception handling and user defined exception	CO-2	exception.	と Lecture と PPT	
8 9	Random Number Generation, StringTokenizer, Java API for date LAB INTERNAL-I	CO-4	and x1>0. 3. Create a user defined	ど Lecture Y PPT	
	characters, words and lines in a file , copying content from one file to other.		2. Write a program to generate a set of random numbers between two numbers x1 and x2		
7	File properties, displays number of	CO-4	words in a text file.	𝔅Lecture𝔅PPT𝔅Discussion	