II B.Tech – II Semester
(20ES4109) JAVA PROGRAMMING LAB

Int. Marks	Ext. Marks	Total Marks	L	T	P	C
15	35	50	-	-	3	1.5

Pre-Requisites: None

Course Objectives:
- To understand object oriented concept
- To become familiar with classes and objects
- Understand various kinds of methods
- Introduce built-in and user defined exceptions
- To become familiar the concepts of AWT

Exercise - 1 (Basics)
a) Write a JAVA program to display default value of all primitive data type of JAVA.
b) Write a case study on public static void main (250 words).
c) Five Bikers Compete in a race such that they drive at a constant speed which may or maynot be the same as the other. To qualify the race, the speed of a racer must be more than the average speed of all 5 racers. Take as input the speed of each racer and print back the speed ofqualifying racers.

Exercise - 2 (Control -flow)
a) Write a JAVA program to search for an element in a given list of elements using binarysearch mechanism.
b) Write a JAVA program to sort for an element in a given list of elements using bubble sort

Exercise - 3 (Class, Objects)
a) Define a class called CalAge. This class is used to calculate age of a person from her or hisdate of birth and the current date. Include a mutator method that allows the user to enter her orhis date of birth and set the value for current date. Also include a method to return the age in years and months (for example, 25.5 years) as a double value. Include an additional method tocheck if the date of birth entered by the user is a valid one. For example, 30 February 2008 isan invalid date. Embed your class in a test program.

Course Outcomes:
After successful completion of the course, the students can be able to

S.No	Course Outcome	BTL
1	Create simple applications using classes, objects and inheritance	
2	Apply parallel processing applications using threads	
3	Develop GUI applications using AWT	
4		
5		

Correlation of COs with POs& PSOs:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	-	-	1	-	-	-	3	-	-	-	3	3
CO2	3	2	-	-	2	-	-	-	3	-	-	-	3	3
CO3	3	3	1	1	2	-	-	-	3	-	-	-	3	3
CO4	3	3	1	1	2	-	-	-	3	-	-	-	3	3
CO5	3	2	1	1	2	-	-	-	3	-	-	-	3	3