NAME: KRISHMA

DEPARTMENT:COMPUTER ENGINEERING

DESIGNATION: LECTURER

SEMESTER:6TH

SUB: PROGRAMMING IN JAVA

TEACHING LOAD:3(L)-3(P)

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| WEEK NO. | THEORY DAY | TOPIC COVERED | PRACTICAL WEEK | PRACTICAL DONE |
| 1 | 1 | A Brief history of Java. How java works | 1 | A)Program to tell whether a number is even or odd  B)Display the output which is given below  \*  \*\*  \*\*\* |
| 2 | Java virtual machine |
| 3 | Java -in-time compiler |
| 2 | 1 | Java features,using java with other tools | 2 | Program which sorts an array of type integer |
| 2 | Native code,java application types |
| 3 | Comparison with C & C++ |
| 3 | 1 | Revision and assignment | 3 | A)Program to determine the sum of the harmonic series  B)Program to convert the temperature in Fahrenheit to Celsius |
| 2 | Working of Data types in java |
| 3 | Control flow statements |
| 4 | 1 | Arrays | 4 | Program to find all the numbers and sum of all integers <100 AND >200  that are divisible by 7 |
| 2 | Casting ,command line argument |
| 3 | Revision and assignment |
| 5 | 1 | Test | 5 | Program to compute and  print the number of student should have obtained marks (a) in the range 81 to 100  (b) in the range 61 to 80 (c) in the range 41 to 60 (d) in the range 0 to 40. |
| 2 | Class and Inheritance |
| 3 | Encapsulation, Polymorphism |
| 6 | 1 | Constructor,finalizers | 6 | Program to process the application to list the eligible student condition:maths marks>=60,physics marks>=50,chemistry marks>=40 total>=200 |
| 2 | Garbage collection, access specifier |
| 3 | Interface and packages |
| 7 | 1 | Using Java interface | 7 | Program using do ….. while loop to calculate and print the first m fibonacci numbers |
| 2 | Using java packages |
| 3 | Revision and doubt section |
| 8 | 1 | Overview of exception handling | 8 | Program to evaluate the investment equation V=P (1+r)n |
| 2 | Method to use exception handling |
| 3 | Methods available for exception handling |
| 9 | 1 | Creating your own exception classes | 9 | Program which will store the students roll no. names and total marks in the 3 Packages in java database |
| 2 | Revision and assignment |
| 3 | Test |
| 10 | 1 | Overview of threads & multithreading | 10 | Program which will display all those records whose marks are above 75% |
| 2 | Thread Basics-creating & running a thread |
| 3 | The thread control methods |
| 11 | 1 | The thread life cycle | 11 | Write a program using applets |
| 2 | Synchronization |
| 3 | Revision and assignment |
| 12 | 1 | Doubt section and Revision | 12 | Exercises on implementing java classes |
| 2 | Test |
| 3 | Java applet Vs java application |
| 13 | 1 | Building applications & applets using JDK | 13 | Exercises on exceptional handling |
| 2 | Building Applets with JDK |
| 3 | HTML for java applets |
| 14 | 1 | Managing Input output stream | 14 | Exercises on creating and running threads |
| 2 | Revision and assignment |
| 3 | Test |
| 15 | 1 | Revision | 15 | Revision |
| 2 | Revision |
| 3 | Revision |