17HS037 OBJECT ORIENTED PROGRAMMING USING JAVA LAB

Course Objectives

As the business environment becomes more sophisticated, the software development (software engineering is about managing complexity) is becoming increasingly complex. As of the best programming paradigm which helps to eliminate complexity of large projects, Object Oriented Programming (OOP) has become the predominant technique for writing software in the past decade. Many other important software development techniques are based upon the fundamental ideas captured by object-oriented programming.

Course Outcomes

At the end of this course student will:

1. Understand the concept and underlying principles of Object-Oriented Programming

2. Understand how object-oriented concepts are incorporated into the Java programming language
3. Develop problem-solving and programming skills using OOP concept
4. Understand the benefits of a well structured program
5. Develop the ability to solve real-world problems through software development in high-level programming language like Java
6. Develop efficient Java applets and applications using OOP concept

Become familiar with the fundamentals and acquire programming skills in the Java language.

1. Write a program to perform various String Operations

2. Write a program on class and object in java

3. Write a program to illustrate Function Overloading &Function Overriding methods in Java

4. Write a program to illustrate the implementation of abstract class

5. Write a program to implement Exception handling

6. Write a program to create packages in Java

7. Write a program on interface in java

8. Write a program to Create Multiple Threads in Java

9. Write a program to Write Applets to draw the various polygons

10. Write a program which illustrates the implementation of multiple Inheritance using interfaces in Java

11. Write a program to assign priorities to threads in java

Reference Books:

1. E.Balaguruswamy, Programming with JAVA, A primer, 3e, TATA McGraw-Hill Company.