

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **M.E. Computer Engineering (IT Systems and Network Security)**

### **Semester: I**

Subject Name: **Object Oriented Programming**

Subject Code: **715103**

#### **Course Content:**

Language features ,How Java is different from C++?,Object oriented concepts, Data types, Variables, Constants, operators, Control Statements (if, for, while, switch etc.),Classes, Constructors, finalize, instance data and methods, the new operator, Methods, overloading, parameter passing, objects as parameters, Memory management, garbage collection, The this facility, static data and methods, block, scope, lifetime, Access Control Rules, Exception Handling, Exceptions as objects, Exception hierarchy, Try, catch and finally, Different exception classes, Data structure, Multithreaded programming, Introduction to Java Network Programming, URL, Inet Address, Socket, and ServerSocket, Datagram Pocket , DatagramSocket, Remote Method Invocation, The Remote interface, The UnicastRemoteObject and Naming classes.

#### **Text Book:**

1. Programming With Java E Balagurusamy, TMH

#### **Reference Book:**

1. Java 6 Programming Black Book, Kogent Solution Inc.