Subject Code: P8IT2

CORE COURSE -II - OBJECT ORIENTED PROGRAMMING WITH JAVA

Objective: To teach students about developing object oriented programs using JAVA language (and side-by-side the JAVA language itself).

UNIT-I

Problem solving – Simple computations – Primitive types, Expressions, variables- Using Objects – Decisions, Iteration

UNIT-II

Basic JAVA classes, packages - Java class hierarchy - Writing complex programs using Packages, User defined classes and flow control statements.

UNIT-III

GUI based programming - Methods, Classes - Arrays and Collection.

UNIT-IV

Inheritance, Polymorphism, Overloading – Examples – Exception Handling – Threads.

UNIT-V

Files and Streams- Graphics – Applets – JDBC programming.

TEXT BOOK:

- 1. James P Cohoon & Jack W Davidson, Programming in JAVA 5.0 (JAVA 2.0 SDK 1.5), Tata McGraw Hill, First Indian Edition, 2007 (ISBN 0-07-063440-8) [Unit-1 :(Chapters 1,2,3,5,6) ;Unit-2 : (Chapters 4,5,6) Unit-3 (Chapters GUI-Interlude-1, 7,8,9) ; Unit-4 (Chapters 9,10, GUI-Interlude-2,12); Unit-5 (Chapters 14,15,16 of TEXTBOOK-2)]
- **2. Balaguruswamy E.**, Programming with JAVA A Primer, Tata McGraw Hill, Third Edition, 2005

REFERENCE BOOK

- **1. Krishnamurthy. R, Prabhu,** Internet & JAVA programming, New Age publishers, New Delhi, 2004.
- **2. Deitel.H.M & Deitel.P.J,** JAVA- How to program, Sixth edition, Prentice Hall of India/Pearson Education, 2006 (ISBN 81-203-2800-0).