

M. Sc., COMPUTER SCIENCE

I YEAR - I SEMESTER

COURSE CODE: 7MCE1C3

CORE COURSE III – ADVANCED JAVA PROGRAMMING

Unit I

JDBC Overview –Connection Class- Meta Data function- SQL Exception – SQL warning- Stataement – Resultset- Other JDBC Classes.

Unit II

InetAddress - TCP/ IP client sockets - TCP/ IP server sockets - URL – URL Connection- Datagrams - Client/ Server application using RMI.

Unit III

Bean Development Kit - Jar Files - Introspection - Design Pattern for properties, events and methods - Constrained Properties - Persistence – Customizers

Unit IV

Life Cycle of Servlet - Generic Servlet - HTTP Servlet - Reading initialization Parameters - Reading Servlet Parameters - Cookies - Session Tracking

Unit V

JApplet - Button - Combo - Trees - Tables - Panes - AWT Classes – working with Graphics, Color and Font

Text Books:

1. Patrick Naughton & Herbert Schildt, "The Complete Reference: Java 2", Tata McGraw Hill, 1999. (Chapter - 18, 21, 24, 25, 26, 27)
2. Joseph Weber, "Using Java 2 Platform", Prentice Hall of India, 2000. (Chapter - 39, 40)

Books for Reference:

1. Deitel & Deitel, "Java How to Program", Prentice Hall, 5th Edition ,2002
2. Peter Hagggar, "Practical Java: Programming Language Guide", Addison-Wesley Pub Co, 1st Edition, 2000
3. Bruce Eckel, "Thinking in Java", Pearson Education Asia, 2nd Edition, 2000