

ADVANCED JAVA PROGRAMMING

UNIT-I:

Directory Services and JNDI: Naming and Directory Services, Using JNDI, Java and LDAP, LDAP operations, Searching an LDAP Server

UNIT-II:

Distributed Computing Using RMI: RMI Architecture, Locating Remote Objects, Developing Applications with RMI, Parameter passing in RMI, RMI firewalls and HTTP

UNIT-III

Java Beans: Introduction to Java Beans, Advantages of Java Beans, JDK Introspection, Using Bound properties, Bean Info Interface, Constrained properties Persistence, Customizes, Java Beans API, Introduction to EJB's

UNIT IV: EJB Architecture and Design: EJB Container and its services, Working with EJBs, Design of the EJB Tier

UNIT-V:

Web Servers and Servlets: Tomcat web server, Introduction to Servlets: Lifecycle of a Servlet, JSDK, The Servlet API, The javax.servelet Package, Reading Servlet parameters, Reading Initialization parameters. The javax.servelet HTTP package, Handling Http Request & Responses, Using Cookies-Session Tracking, Security Issues

UNIT-VI:

Introduction to JSP: The Problem with Servlet. The Anatomy of a JSP Page, JSP Processing. JSP Application Design with MVC, Tomcat Server & Testing Tomcat

JSP Application Development: Generating Dynamic Content, Using Scripting Elements Implicit JSP Objects, Conditional Processing – Displaying Values Using an Expression to Set an Attribute, Declaring Variables and Methods Error Handling and Debugging Sharing Data Between JSP pages, Requests, and Users Passing Control and Date between Pages – Sharing Session and Application Data – Memory Usage Considerations

UNIT VII:

Database Access: Database Programming using JDBC, Studying Javax.sql.*package, Accessing a Database from a JSP Page, Application – Specific Database Actions, Deploying JAVA Beans in a JSP Page, Introduction to struts framework.

UNIT VIII: J2EE and Web Services: Web Service Technologies (SOAP, WSDL, UDDI), Developing Web services, Making Services smarter.

TEXT BOOKS:

1. Professional Java Server Programming, J2EE 1.3 edition, APRESS publications (Units 1, 2,4,8)
2. The complete Reference Java 8 th Edition by Patrick Naughton and Herbert Schildt. TMH (Units 3, 5, 6, 7)

REFERENCE BOOKS:

1. Java Server Pages –Hans Bergsten, SPD O'Reilly
2. Programming world wide web-Sebesta, Pearson
3. Core SERVLETS ANDJAVASERVER PAGES VOLUME 1: CORE TECHNOLOGIES By Marty Hall and Larry Brown Pearson
4. Internet and World Wide Web – How to program by Dietel and Nieto PHI/Pearson Education Asia.
5. Jakarta Struts Cookbook , Bill Siggelkow, S P D O'Reilly for chap 8.
6. Murach's beginning JAVAJDK 5, Murach, SPD
7. An Introduction to web Design and Programming –Wang-Thomson
8. Web Applications Technologies Concepts-Knuckles,John Wiley
9. Programming world wide web-Sebesta,Pearson
10. Web Warrior Guide to Web Programmimg-Bai/Ekedaw-Thomas
11. Beginning Web Programming-Jon Duckett WROX.
12. Java Server Pages, Pekowsky, Pearson.