705 : Advanced java Technology

Unit 1   **15%**

Introduction to J2EE Platform and Architecture
> * The J2EE Platform
> * The J2EE Architecture Containers
> * J2EE Technologies
> * Developing J2EE Applications
> * Introducing Java Mail and JMS

Unit 2   **10%**

Database Programming

> ODBC and JDBC Drivers, Connecting to Database with the java.sql Package, Using JDBC

Unit 3   **25%**

Servlets

> Introduction to Servlets and architecture , Servlet Life Cycle, Servlet based Applications, type of servlet, Servlet and HTML,Session management

JSP

> Introduction to JSP, JSP implicit objects, JSP based Applications, Session Management

Unit 4   **20%**

> **Remote Method Invocation (RMI)**
> * The RMI Architecture
> * RMI Exceptions
> * Developing Applications With RMI
> * Parameter Passing in RMI

XML

> XML syntax and semantics,
> Writing Document Type Definitions (DTDs),
> XML based applications

Unit 5   **25%**

Java Beans

> * An overview of Java Beans
> * Requirement, Development and Scope of Java Beans
> * Design consideration and Naming conventions of Java Beans and
>   Guideline .

Enterprise Java Beans (EJB)

> * Introduction to EJB
> * Entity Beans
> * Session Beans

Unit 6   **05%**

Struts

    * What is Struts?
    * Development Models
    * Model-view-controller architecture.
    * Struts flow with an example application

Text Books:-

    1. Professional Java Server Programming by Subrahmanyam Allamaraju

Reference Books:-

    1. J2EE Bible   by Justin Couch and Deniel H. Steinberg
    2. Professional Java Server Programming Volume I and II,
       Wrox Publication.
    3. J2EE Unleashed by Joseph J. Bambara, BPB publications
    4. Enterprise JAVA J2EE 1.3 complete, BPB publications
    5. The complete Reference Struts (seventh edition).