



CS 1X07 WEB APPLICATION DESIGN AND DEVELOPMENT

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L- T- P : 3- 0- 3 Credit : 5

1. Database Connectivity : Concept of JDBC (Java Database Connectivity), working with SQL, Stored Procedures. Lecture : 5
2. Client Server Side Programming : Java Script- Introduction, data types, variables, operators, Array Objects, Date, Objects, String Objects, Document Object Model, Image Object, Event handling, Browser Object, Window Object, Location Object, History Object, Submit event and data validation. Understanding Servlet programming, its Life- Cycle, Servlet Configuration, understanding Servlet sessions, understanding of JSP and JSLT, JSP documents, Elements, tag extensions, tag libraries, validation, translation time mechanism translation- time classes, Understanding Java Server Pages Standard Tag Library, tags in JSLT, core tag library, XML tag library using Internationalization Actions. Lecture : 20
3. J2EE : Advantages of J2EE, Enterprise Architecture Types, Understanding EJB, its architecture, EJB Roles, Benefits and limitations of Enterprise beans, session beans: Stateful and Stateless beans, Entity Beans, Beans Managed Persistence, Container Managed Persistence, Introduction to Web Containers. Lecture : 10
4. Network Programming : Java Socket programming for TCP and UDP, RMI (Remote Method Invocation). Lecture : 2
5. Case Study : Web Applications, Web Applications Life Cycle, Enterprise Application Development process, Deploying Web Applications. Lecture : 5

Text Books:

1. Java Server Programming J2EE, 1.4 Edition Black Book (Dreamtech Press)
2. Core Java TM Volume II by Cay S. Horstmann & Gray Cornell (Pearson)

Reference Book:

1. J2EE 1.4 Bible by McGovern (Wiley India)

Regards,
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