10B28CI681: Information System Lab

Course Credit: 1

Semester: VI

Objective:

This course covers the key technologies, architectures and tools required for programming web-based systems using Enterprise Java. It covers the configuration of a Java application server and the deployment of web applications, using core Java enterprise components such as JavaBeans and tag libraries. It explains how to access enterprise data sources from a server-side application and introduces the key features of Struts, the de facto standard web application framework. It also includes coverage of XML and XML based SOAP.

Learning Outcomes:

1. Identify and analyze requirements for information systems
2. Understand and apply design principles in Information Systems
3. Demonstrate proficiency in the technologies and processes for developing business software.
4. Demonstrate proficiency in structuring, collecting, and analyzing data to support business operations and strategic decision making.
5. Understand and apply system development & project management principles
6. Effectively communicate to both business and IT professionals

List of Experiments

S NO	Topics
1	Building MVC based solution in Java
2	Building MVC on thin client approach
3	Building MVC on thick client approach
4	Stateless EJB
5	Stateful EJB
6	Container Managed Persistence EJB
7	Bean Managed Persistence EJB
8	XML based SOAP
9	SAAJ based SOAP
10	XML based WSDL
11	Secure Information System

References

1. Rafael L. Alcami, Carlos D. Caranana, “Introduction to Management Information Systems”.
2. Ethan Cerami, “Web Services Essentials”, O’Reilly
3. Marty Hall, Larry Brown, “Core Servlets and Java Server Pages”, Prentice Hall
4. Kogent, “Java Server Programming tutorial, J2EE Black Book”, Dreamtech Press

5. Herbert Schildt, “The Complete Reference: JAVA”, Tata McGraw- Hill
6. Kathy Sierra & Bert Bates, “Head First EJB”, O’Reilly
7. Phil Hanna, “The Complete Reference: JSP 2.0” Tata McGraw-Hill

Evaluation Scheme:

1.	Mid Term Exam (Viva and Written Exam)	20
2.	End term Exam (Viva and Written Exam)	30
3.	Lab Records	5
4.	Regular Assessment (Quality and quantity of experiment performed, Learning laboratory skills, Attendance etc.)	30
5.	Project	15
	Total	**100**