

Course Name : Web Database Connectivity using Java Server Pages	Course Code : ITDB3112
Pre Requisite : ITDB1102-Introduction to Database, ITSE2100-Object Oriented Programming	Credit Hours : 3
Passing Grade : C	Level : Advanced Diploma
No. of Theory Hrs: 1	No. of Practical Hrs : 4
Goal: To prepare the students to gain skills in building dynamic web applications using Java Server Pages	
Objectives: Upon completion of this course, the students should be able to: <ol style="list-style-type: none"> 1. Explain various Java web technologies 2. Design JSP applications using JDBC compliant databases 3. Illustrate JSP custom tags 	
Outcomes	Methodologies
Upon completion of this course, the students should be able to:	
1. Describe Java web development process	Theory
2. Discuss Servlet technology and Servlet lifecycle	Theory
3. Explain the advantages of JSP over Servlets	Theory
4. Describe the concepts of JSP	Theory
5. Apply JSP tags, JSP Objects, JSP scriptlets, and JavaBeans	Practical
6. Develop JSP applications using Java Servlets	Practical
7. Use a web container to deploy JSP applications	Practical
8. Develop custom JSP tags	Practical
9. Apply exception handling techniques in JSP applications	Practical
10. Implement sessions in JSP	Practical
11. Use JDBC for database-driven JSP applications.	Practical
Software & Hardware Tools: MySQL, Tomcat, IDE (Netbeans/DreamWeaver, etc.)	
Text Book: 1) Hans Bergsten, Java Server Pages, O'Reilly Media	

- 2) JSP 2.0: the Complete Reference, Second Edition Publisher:McGrawHill Osborne Media; 2nd Edition

Reference Book:

- 1) Vivek Chopra, Sing Li, Rupert Jones, Jon Eaves, John T. Bell, Beginning Java Server Pages, Wrox Publications
- 2) Giulio Zambon, Beginning JSP, JSF and Tomcat, 2nd Edition, Apress
- 3) Budi Kurniawan, Servlet & JSP, A Tutorial (Tutorial Series), ISBN: 978-0-9808396-2-3