

**WEB TECHNOLOGIES**

Year	Semester	Hours/Week			C	Marks		
		L	T	P/D		CIE	SEE	Total
III	I	3	-	-	3	50	50	100
<b>Pre-requisite</b>		Nil						

**COURSE OUTCOMES**

At the end of the course, the student will develop ability to

1. Create a website using HTML5 and add dynamic functionality to it by using JavaScript, CSS & XHTML.
2. Implement three tier architecture using servlets and JSP.
3. Organizing JSP for Dynamic Web Development Applications.
4. Apply JDBC knowledge to make connection to various connections.
5. Recite EJB and Struts' for Web Development Applications
6. Build dynamic websites on real world problems.

**UNIT I**

HTML 5.0, CSS and XML:

Basic Tags of HTML, Tables, div, span, Forms, Media Tags.

Controlling Page Layout, Backgrounds, borders, colours, and text, Transformations and Animations

XML Elements, XML DTD and Schema

**UNIT II**

JavaScript and JQuery:

JavaScript Essential Syntax: Declaring variables and arrays, Using operators and expressions, Loops and decision-making constructs, JavaScript Functions, Alert, confirmation and prompt boxes, Regular expressions, JavaScript Objects, Event-handling.

jQuery introduction, The jQuery ready Function, jQuery Selectors, jQuery and DOM, jQuery and Events, jQuery UI: jQuery UI overview.

**UNIT III**

AJAX and Angular JS:

Overview of AJAX, Creating an XML Http Request object, interacting with a server, Handling XML and JSON

Angular JS Introduction, Expressions and Data Biding, Working with Directives, Controllers and Forms

**UNIT IV**

JDBC and Servlets:

JDBC Drivers, Connections, Statements and Result Set

Servlet Life Cycle, Servlet Types, Session Management and JDBC-Servlet

**UNIT V**

JSP and Beans:

JSP Life Cycle, JSP Elements, implicit Objects, Session Tracking, JDBC-JSP,

Bean Creation, JDBC-Bean,

Introduction to Struts Framework

**TEXT BOOKS**

1. Web Programming, building internet applications, Chris Bates 2<sup>nd</sup> edition, WILEY Dreamtech.
2. Java Server Pages –Hans Bergsten, SPD O’Reilly.
3. Javascript: JSON and Ajax - O’Reilly Media
4. AngularJS, JavaScript, and jQuery All in One, Sams Teach Yourself.

**REFERENCE BOOKS**

1. Programming world wide web-Sebesta, Pearson