CS-801: Web Technology

Introduction: 8 L

Basics of World Wide Web (WWW), Web Browser and its architecture, Hyper Text Markup Language (HTML), Common Gateway Interface (CGI), Content Management System (CMS), Remote Login (TELNET).

 [1]: [chap. 6 Complete].

JavaScript: 7 L

Basic concepts, structure, variables, operators, functions, control structures, standard objects, event handling, Introduction to AJAX.

 [1]: [chap. 7 Complete]

Java Server Pages: 9 L

Introduction to Java Server Pages (JSP), elements of a JSP (directives, comments, scripting), developing a simple JavaBean, Java Database Connectivity (JDBC).

 [1]: [9.1.5 – 9.1.8, 9.1.11, 9.1.12]

 Recommended Reading Material

Text Books

3. A. S. Godbole and A. Kahate, Web Technologies: TCP/IP, Architecture and Java Programming, McGraw-Hill, 2nd Edition, 2012.

Reference Books

4. H.M. Deitel, P.J. Deitel and A.B. Goldberg, Internet and World Wide Web: How to Programe, 4th Edition, Pearson Prentice Hall, 2008

5. N. P. Gopalan and J. Akilandeswari, Web Technology: A Developer's Perspective, PHI, 2013.

6. J. C. Jackson, Web Technologies: A Computer Science Perspective, PHI, 2009.

Online Reading / Supporting Material

1. http://www.w3schools.com/

2. http://netbeans.org/

LIST OF PRACTICALS CS-801: WEB TECHNOLOGY

S. No.	Practical Title
1.	**Create an admission form of your college which includes:** • **College name and its website address that links to the website** • **numbered list of various fields** • **Check boxes** • **image for photograph** • **combo box and** • **submit button**
2.	**Design a set of web pages to organize the content on the topic 'Web Technology' or any other topic of your choice using frames.**
3.	**Design a web page using CSS to demonstrate a web portal of tutorials.**
4.	**Put validation checks on all possible fields on admission form (Pract. 1) using JavaScript.**
5.	**Create an interactive multiple-choice quiz using JavaScript and AJAX.**
6.	**Create an Ajax-enabled HTML page for accepting a user ID and password from the user, and check if the user ID and password are correct.**
7	**Create a JDBC connection to the admission form (Pract 1) for generating a database of students. Send an appropriate acknowledgement to the student after accepting the form. (Make use of JSP, JDBC and MySql)**