

SUBJECT : WEB TECHNOLOGY

Subject Code : CSE304

L T P

Full marks 100 th + 50 Pr

3 2

Hours 42 Th + 28 Pr

1. Web Essentials:

6

Clients, Servers, and Communication. The Internet-Basic Internet Protocols -The World Wide Web-HTTP request message-response message-Web Clients Web Servers-Case Study. Markup Languages: XHTML. Basics of HTML, XHTML Syntax and Semantics, URLs-Lists-tables-Frames-Forms-XML Creating HTML Documents, Case Study.

2. Style Sheets:

10

CSS- Introduction to Cascading Style Sheets-Features-Core Syntax-Style Sheets and HTML Style Rle Cascading and Inheritance-Text Properties-Box Model Normal Flow Box Layout-Beyond the Normal Flow-Other Properties-Case Study. Client-Side Programming: The JavaScript Language-History and Versions Introduction JavaScript in Perspective-Syntax-Variables and Data Types-Statements-Operators-Literals-Functions-Objects-Arrays-Built-in Objects-JavaScript Debuggers.

3. Host Objects :

10

Browsers and the DOM-Introduction to the Document Object Model DOM History and Levels-Intrinsic Event Handling-Modifying Element Style-The Document Tree-DOM Event Handling-Accommodating Noncompliant Browsers Properties of window-Case Study. Server-Side Programming: Java Servlets- Architecture -Overview-A Servlet-Generating Dynamic Content-Life Cycle-Parameter Data-Sessions-Cookies-URL Rewriting-Other Capabilities-Data Storage Servlets and Concurrency-Case Study-Related Technologies.

4. Representing Web Data:

8

XML-Documents and Vocabularies-Versions and Declaration - Namespaces JavaScript and XML: Ajax-DOM based XML processing Event-oriented Parsing: SAX-Transforming XML Documents-Selecting XML Data: XPATH- Template based Transformations: XSLT- Displaying XML Documents in Browsers-Case Study-Related Technologies.

5. JSP Technology

8

Introduction-JSP and Servlets- Running JSP Applications Basic JSP- JavaBeans Classes and JSP-Tag Libraries and Files- Support for the Model- View- Controller Paradigm-Case Study- Related Technologies.

TEXT BOOK

1. Jeffrey C.Jackson, "Web Technologies--A Computer Science Perspective", Pearson Education, 2006.

REFERENCES BOOK

1. Robert. W. Sebesta, "Programming the World Wide Web", Fourth Edition, Pearson Education, 2007.
2. Deitel, Deitel, Goldberg, "Internet & World Wide Web How To Program", Third Edition, Pearson Education, 2006.
3. Marty Hall and Larry Brown, "Core Web Programming" Second Edition, Volume I and II, Pearson Education, 2001.
4. Bates, "Developing Web Applications", Wiley, 2006.

Subject : Web Technology Lab**Subject Code : CSE306****LIST OF PRACTICAL :**

1. Design web pages for your college containing a description of the courses, departments, faculties, library etc, use href, list tags.
2. Write html code to develop a webpage having two frames that divide the webpage into two equal rows and then divide the row into equal columns fill each frame with a different background color.
3. Create your resume using HTML tags also experiment with colors, text , link ,size and also other tags you studied.
4. Design a web page of your home town with an attractive background color, text color, an Image, font etc. (use internal CSS).
5. Use Inline CSS to format your resume that you created.
6. Develop a JavaScript to display today's date.
7. Create HTML Page with JavaScript which takes Integer number as input and tells whether the number is ODD or EVEN.
8. Create HTML Page that contains form with fields Name, Email, Mobile No , Gender , Favorite Color and a button now write a JavaScript code to combine and display the information in textbox when the button is clicked.
9. Create XML file to store student information like Enrollment Number, Name , Mobile Number , Email Id.
10. Create a web page with the following.
 - i. Cascading style sheets.
 - ii. Embedded style sheets.
 - iii. Inline style sheets. Use your college information for the web pages.

