AIT 518　　　　**INTRODUCTION TO WEB TECHNOLOGIES**　　　　**3(2+1)**

Objective:
Introduce the concept of Internet and WWW, Design an attractive web site using HTML and CSS., Understand the implementation of form validation in Web pages.

Theory:
Unit I
Define: Internet & Intranet, Internet Applications & Services, ISP, Internet Connection Types, IP Address, Domain Name, URL, WWW, Web page, Web Site, Web browser, Web Server, Web Searching.

Unit II
Introduction to HTML, Html Document Structure, HTML tags: Document Tags, Text Formatting Tags, Linking tags, Line Breaking Tags, Image and Image Mapping Tags, List creation tags, Table tags, Frame tags, and Form elements tag.

Unit III
Introduction of Style sheet, Types of Style sheet, Class & ID, CSS Font Property, CSS Text Property, CSS Background Property, CSS Border Property, CSS Margin Property

Unit IV
Introduction to JavaScript, Operators, Conditional Structure & Looping Structures, Dialog Boxes, Arrays User Define Function, Built-in Functions of String, Date, Math, Array, Javascript own objects, the DOM and web browser environments, forms and validations

Unit V
Introduction to XML, uses of XML, simple XML, XML key components, DTD and Schemas, Well formed, using XML with JavaScript.

Practical:
1. Web page design using Document Tags, Text Formatting, Image, Line Breaking Tags
2. Web page design using HTML List creation tags, Table tags, Frame tags
3. Web form design using HTML Form elements tag.
4. Web page design using CSS Font Property, CSS Text Property
5. Web page design using CSS Background, CSS Border, CSS Margin Property
6. Write simple JavaScript using variable, conditional and looping statements.
7. Write a JavaScript using Form Element such as Textbox, button,
8. Write a JavaScript using Form Element such as radio, checkbox and select.
9. Write a JavaScript to validate a form.
10. Prepare and use of XML file.

Reference Book:
1. HTML DHTML JavaScript and Perl CGI By Ivan Bayross
2. Web Technologies, Black Book, dreamtech Press
3. Pure JavaScript By Jason Gilliam, Charlton Ting, R. Allen Wyke
4. Sams Teach Yourself Web Publishing with HTML and CSS By Laura Lemay, Rafe Colburn