

| Course Code: 5.3 | Course Name: Internet & Web Programming Technology | Credits | | | |
|---------------------|--|---------|------|-----|---------|
| | | L:2 | T: 1 | P:0 | Total:3 |

Objective: The course is designed with an objective to

- Design a webpage using HTML and CSS.
- Make an interactive webpage using JavaScript.
- Use Server side scripting language to make a dynamic webpage.

Learning Outcome: On completion of the course, students will be able to:

- Design dynamic and interactive web pages by embedding Java Script code in HTML and using Java Script to validate user input.
- Apply CSS in WebPages.
- Recognize the HTML and XML DOM.
- Create website using Server Side Scripting language.
- Apply AJAX in WebPages.

PART-A Theory (TH:5.3)

Total Marks: 100
(In semester evaluation 40 & End semester evaluation 60)

Unit 1: Introduction to Internet **Marks: 12**
History of Internet, Structure of Internet (include client server architecture), Internet Terminologies (www, URL, search engine, bandwidth, browser, cookies, domain name service, IP address, website and its components, telnet etc.), protocols, types of protocols(http, https, ftp).

Unit 2: DOM & XML **Marks: 12**
Introduction to Document Object Model(DOM),hierarchy of objects in DOM. Introduction to XML. Applications of XML.

Unit 3: HTML & CSS **Marks:12**
Introduction to HTML. Webpage Elements, attributes, heading, paragraphs, images, tables, lists, forms. Basic of CSS, Add style to document, Creating Style sheet rules, Style sheet properties, Font, Text, List, Color and background color, Box, Display properties.

Unit 4: Introduction to Client-Side Scripting language **Marks: 12**
Introduction to Client side scripting language, Javascript, Advantage of Javascript, Javascript Syntax, Datatype, Variable, Array, Operator and Expression, Loop, Function, Dialog box, event handling using javascript, form validation. Introduction to Ajax and VB Script.

Unit 5:Introduction to Server-Side Scripting language**Marks: 12**

Introduction to Server side scripting language, Introduction to ASP, JSP, PHP. Development of WebPages using javascript and any one server side scripting language.

Text Books:

1. Hahn, H, "*The Internet Complete Reference*", Mcgraw-Hill Osborne Media,2nd Edition,2002
2. Roy U.K ,"*Web Technologies*", Oxford University Press,1st edition, 2010.

Reference Books:

1. Robin N, "*Learning PHP, MySQL & JavaScript with jQuery, CSS & HTML5*",O'Reilly,2014,4th Edition.
2. Phillip H,"*JSP 2.0: The Complete Reference*", Mcgraw Hill.2nd Edition,2003.
3. Bill E, Scott H, Farhan M, "*Professional ASP.NET 2.0*",4th Edition,2005.

Part B(Practical) PR:5.3

| Credit | | | |
|------------|------------|------------|----------------|
| L:0 | T:0 | P:4 | Total:2 |

Total Marks: 50

(In semester evaluation 20 & End semester evaluation 30)

- Design dynamic and interactive web pages to validate user input.
- Apply CSS,Ajax in WebPages.
- Apply PHP in a webpage.

Discussion:

Emphasis should be given on designing web pages using JavaScript and any one server side scripting language.