

<b>Subject Code : 1CS2010309</b>	<b>Subject Title: DYNAMIC HTML</b>
<b>Pre-requisite :</b>	Working knowledge of Internet and HTML

**Course Objective:**

The objectives of the course are to:

- To be able to learn about the opportunities, challenges and techniques for developing websites built with the new resources provided by HTML5.
- To be able to learn core concepts of web programming using HTML, JavaScript, AJAX, jQuery and JSON

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture	Tutorial	Practical	Credit	Theory		Practical		Total
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
3	--	3	6	60	40	30	20	150

Subject Contents			
Sr. No	Topic	Total Hours	Weight (%)
1	<b>Starting with HTML5</b> HTML5 Tags, Creating Hyperlinks and Anchors, Creating Navigational Aids, Creating Division - Based Layouts, Creating and Formatting Tables, Creating User Forms, Displaying Graphics.	6	15
2	<b>JavaScript</b> Overview of Java Script, Primitives, Date and Time, Operations and Expressions, Screen Output and Keyboard Input, Control Statement, Object Creation and Modification, Arrays, Functions, Constructors, Cookies	6	20
3	<b>Style Sheets</b> Introduction to Style Sheets, Inline, External and internal style sheets, Formatting Text by Using Style Sheets, Formatting Paragraphs by Using Style Sheets	6	15
4	<b>AJAX</b> Exploring AJAX, AJAX web application model, and working of AJAX, creating a simple AJAX Application. Exploring interactions between AJAX and PHP, validating fields Using AJAX and PHP, retrieving data from a Database using PHP and AJAX	7	20
5	<b>jQuery</b> Exploring Fundamentals of jQuery, loading and using jQuery, describing call back functions, exploring jQuery Selectors, methods, manipulators, events and effects, exploring jQuery and AJAX	7	20
6	<b>JSON</b> Overview, Syntax, Data Types, Objects, Schema, Serializing into JSON, Parsing JSON	4	10

**Course Outcome:**

At the end of this course, the student would be able visualize the real world application scenario And enables them for development and implementation of such dynamic web applications

**List of References**

1. Faithe Wempen, "Step by Step HTML 5", South Asian Edition, Microsoft Press and PHI Learning
2. Adam Freeman Pro jQuery 2.0 Apress Latest Edition
3. Lee Babin, Beginning Ajax with PHP From Novice to Professional Apress Latest Edition
4. Jeremy McPeak Beginning JavaScript Wrox Publication Latest Edition
5. Ivan Bayross, "Web Enabled Commercial Application Development Using HTML, DHTML,

**Indicative Practical List:**

1. Write, test and debug small applications Using HTML tags, input tags, input types.
2. Write, test and debug small applications with HTML5 Semantic Page Elements, inline semantic elements, media semantic elements.
3. Design a web page to use CSS to control the style and layout tag <div> for given template.

<header>	
<navigation>	
<section>	<aside>
<article>	
<footer>	

Use <iframe> tag to check section based on navigation selection

Modify to use external CSS file

5. Design a Page execute all three types of CSS

Internal CSS,  
External CSS  
Inline CSS  
Multiple CSS

6. Design HTML Page with CSS including following facilities

Background  
Text  
Font  
Border  
Margin  
Padding  
List  
Table

7. Write, test and debug small applications with Basic CSS.
8. Write, test and debug small applications with CSS by employing local styles & making use of ids and classes, managing appearance, absolute and float positioning
9. Write, test and debug small applications Using HTML5 and CSS3tag
10. Write, test and debug small applications with CSS3 using flexible box layout model.

11. Write, test and debug small applications/template and linking page.
12. Write, test and debug small applications with Canvas tag.
13. Write test and debug a JavaScript program illustrating the use of variables and its data types.
14. Design HTML using JavaScript to decide the day of week using switch case statement
15. Design DHTML using JavaScript to Calculator
16. Design DHTML page using JavaScript to demonstrate following pop box
  - Alert Box
  - Conform Box
  - Prompt Box
17. Create DHTML Form for the Dynamic use of records in web form
18. Create Login form with help of DHTML
19. Design HTML form with java script to perform following task:
  - To show “You Clicked Me” message when a user clicks on button “Click Me”.
  - Takes Integer number as input and tells whether the number is ODD or EVEN.
  - Takes two real numbers as input and perform arithmetic’s operation chosen by user from list of radio button.
20. Design a XSLT to read data from XML File and print it in tabular manner. Use XML file of store book information like its name, author, publisher and price for at least two books regarding the DTD for the same file.
21. Write test and debug a JavaScript program illustrating the importance of Document Object Model.
22. Write, test and debug a form and implement java script showing all the major form validations.
23. Write test and debug a JavaScript program illustrating the importance of Window Object Model
24. Write test and debug a JavaScript to handle following events.
  - OnLoad and OnUnLoad,
  - OnFocus,
  - OnBlur,
  - OnChange,
  - OnSubmit,
  - OnMouseOver,
  - OnMouseOu
25. Write test and debug a JavaScript program illustrating the Date and math Objects
26. Write test and debug a jQuery program representing the use of hide(), show() and toggle() functions
27. Write test and debug a program implementing jQuery fading methods.
28. Write test and debug a program implementing mouse and keyboard events.