

<b>Branch Name:</b>	MCA
<b>Program Code:</b>	CS201
<b>Course Name:</b>	Web Design Technology Practical
<b>Course Code:</b>	3CS2010103P
<b>Pre-requisite Course:</b>	Working knowledge of Internet and HTML

### Course Objectives:

1. To be able to learn about the opportunities, challenges and techniques for developing websites built with the new resources provided by HTML5.
2. To be able to learn core concepts of web programming using HTML, JavaScript, AJAX, jQuery and JSON
3. To implement the Latest properties of CSS3
4. To design and implement dynamic websites with a good sense of designing and latest technical aspects.

### Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				Total (Marks)
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
-	-	3	3	-	-	25	25	50

### Course Contents:

#### LAB/Practical

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 a 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 a flexible box layout model.
11. Write, test and debug small applications/templates and linking pages.
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
  - Confirm 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 the “You Clicked Me” message when a user clicks on the button “Click Me”.
  - Takes Integer number as input and tells whether the number is ODD or EVEN.
  - Take two real numbers as input and perform arithmetic’s operation chosen by the user from the list of radio buttons.
  
20. Design a XSLT to read data from XML File and print it in tabular manner. Use an 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 a 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.

**Text Books:**

1. Advance CSS by Kailash Chandra Upadhyay
2. Javascript and JQuery by Jon Dockett
3. Dynamic HTML – The Definitive Reference O'Reilly 1st edition

**Reference Books:**

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

**List of Open Source Software/learning website:**

1. [www.w3school.com](http://www.w3school.com)
3. [www.tutorialspoint.com](http://www.tutorialspoint.com)
4. [www.geeksforgeeks.org](http://www.geeksforgeeks.org)
5. [www.javatpoint.com](http://www.javatpoint.com)

**Course Learning Outcomes (CLO): On completion of this course, the students will be able to:**

CLO	Description	Bloom's Taxonomy Level
CLO1	Develop a dynamic webpage by the use of java script and DHTML	6 Creating
CLO2	Understand the basic concept of css, json, javascript and ajax	2 Understanding,
CLO3	Design appropriate user interfaces and implements webpage based on given problem Statement	3 Applying,
CLO4	Implement concept and method of Ajax	3 Applying,
CLO5	Design different layout of website using CSS3	3 Applying,
CLO6	Validate the form element using java script	3 Applying,

**Mapping of CLOs with POs & PSOs**

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes (PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CLO1	H	L	H		H	M		L	L		L	M	M	M
CLO2	L		M		H		M		H		L		M	M
CLO3		M	H	L		L		L	M	L	M	L	M	L
CLO4		L	H		M			L		L	L		M	
CLO5	M		H		M			L	M		M	L	L	M
CLO6	H	L	M		L		L		L		L	M	L	L

**H:High, M:Medium, L:Low**