

Branch Name:	MCA
Program Code:	CS201
Course Name:	Web Design Technology
Course Code:	3CS2010103T
Pre-requisite Course:	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	
4	-		4	60	40	-	-	100

Course Contents:

Unit No	Topic	Total Hours	Weightage (%)
1	Advance Style sheet Animation, @keyframes rule, Translate, Box sizing, Flex box, Transform, Transition, Grid, Layout, Table, Navigation bar, Pagination Bootstrap: Introduction, Advantage of bootstrap, what is responsive web page, Features of bootstrap, Bootstrap Grid, What is Container, Bootstrap table, Display responsive Images, Bootstrap Form Layout, Bootstrap Component, Navbar Component	10	25
2	JavaScript Overview of Java Script, Data type and variable, Variable life time, Java script falsy expression, Operators and Expressions, Conditional Statement, Control Statement, Arrays, Functions, DOM, Event Handling, object Closure, oops concept in java script, form Validation	10	25
3	JQuery Introduction, Install and use of jQuery library, jQuery syntax, jquery initialization block, jQuery selector, jquery css classes, jquery DOM function, Handling event, Handling effect, describing call back functions, methods, manipulators, exploring jQuery and AJAX JSON Overview, Syntax, Data Types, Parsing JSON, Stringify, Objects, json array, Schema, Serializing into JSON	10	25

4	<p>AJAX Introduction, XMLHttpRequest object, Exploring AJAX, Loading simple data, getting json data, passing data to server, creating a simple AJAX Application. JQuery.ajax () method, jquery.get () method, jquery.post () method, Exploring interactions between AJAX and PHP, validating fields Using AJAX, retrieving data from a Database using PHP and AJAX</p>	10	25
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Text Books:

1. Advance CSS by Kailash Chandra Upadhyay
2. Javascript and JQuery by Jon Ducket
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
3. www.tutorialspoint.com
4. www.geeksforgeeks.org
5. 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