FSMR1	CLIENT SIDE SCRIPTING	L	T	P	C	Int	Ext
		3	1	-	3.0	30	70

COURSE OBJECTIVES:

1. Design structured and styled web pages using HTML5 and CSS.
2. Develop dynamic web pages using JavaScript and DOM.
3. Apply XML and web server concepts for web application development.
4. Enhance web applications using jQuery and AJAX.

COURSE OUTCOMES:

After successful completion of the course, the students are able to

1. Build responsive web pages using HTML5 and CSS.
2. Create dynamic client-side applications using JavaScript and DOM.
3. Design XML documents and explain web server and HTTP concepts.
4. Develop interactive web applications using jQuery and AJAX.

UNIT I [CO:1] **(12)**

Introduction to HTML5: First HTML5 Example, Headings, Linking, Images,Lists, Tables, Forms, Meta Elements, New HTML5 Form input types, Page Structure Elements, Introduction, Canvas coordinate System, Rectangles, Using paths to draw Lines, Drawing Arcs and Circles, Shadows, Quadratic Curves, Bezier Curves, Images, Image Manipulation, Patterns, Transformations, Text.

Introduction to Cascading Style Sheets (CSS): Inline styles, Embedded style, Conflicting styles, Linking External styles sheets,Selectors, Positioning, Backgrounds, Box Model and Text Flow, Drop-Down Menus,Text Shadows, Rounded Corners, Color, Box Shadows, Linear and Gradients, Multiple background images, Transitions and Transformations.

UNIT II [CO:2] **(12)**

JavaScript: Introduction to Scripting, Control Statements, Operators, Loops, Break, Continue, Functions, Arrays, Objects.

Document Object Model (DOM): Objects and Collections, **JavaScript Event Handling:** A Deeper Look.

UNIT III [CO:3] **(12)**

XML: Introduction, Basics, Structuring Data, Namespaces, Document Type Definitions (DTDs), XML Vocabularies, Extensible Style sheet Language and XSL Transformations, DOM.

Web Servers: Introduction, HTTP Transactions, Multitier Application Architecture, Clientside scripting versus Server-side scripting, Accessing Web Servers, XAMPP and IIS Express

UNIT IV [CO:4] **(12)**

Introduction to jQuery, Selecting and filtering, Events, Manipulating content and attributes, Iteration of arrays and objects, CSS and AJAX.

LEARNING RESOURCES:

TEXT BOOK(s):

1. Paul Deitel, Harvey Deitel and Abbey Deitel, Internet & World Wide Web - How to Program, 5/e, Pearson Education.

2. Web Development with jQuery, Richard York, Wrox-a willy brand

REFERENCE BOOK(s):

1. Jason Cranford Teague, Visual Quick Start Guide CSS, DHTML & AJAX, 4/ e, Pearson Education.
2. Tom NerinoDoli Smith, JavaScript & AJAX for the Web, Pearson Education, 2007.
3. jQuery Cookbook, jQuery Community Experts, O REILLY.

WEB RESOURCES:

1. www.deitel.com
2. www.w3schools.com
3. www.tutorialspot.com