

Course Name : Computer Engineering Group

Course Code : CO/CM/IF/CD

Semester : Second

Subject Title : Web Page Designing

Subject Code : 12028

Teaching and Examination Scheme:

Teaching Scheme			Examination Scheme					
TH	TU	PR	PAPER HRS	TH	PR	OR	TW	TOTAL
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Rationale:

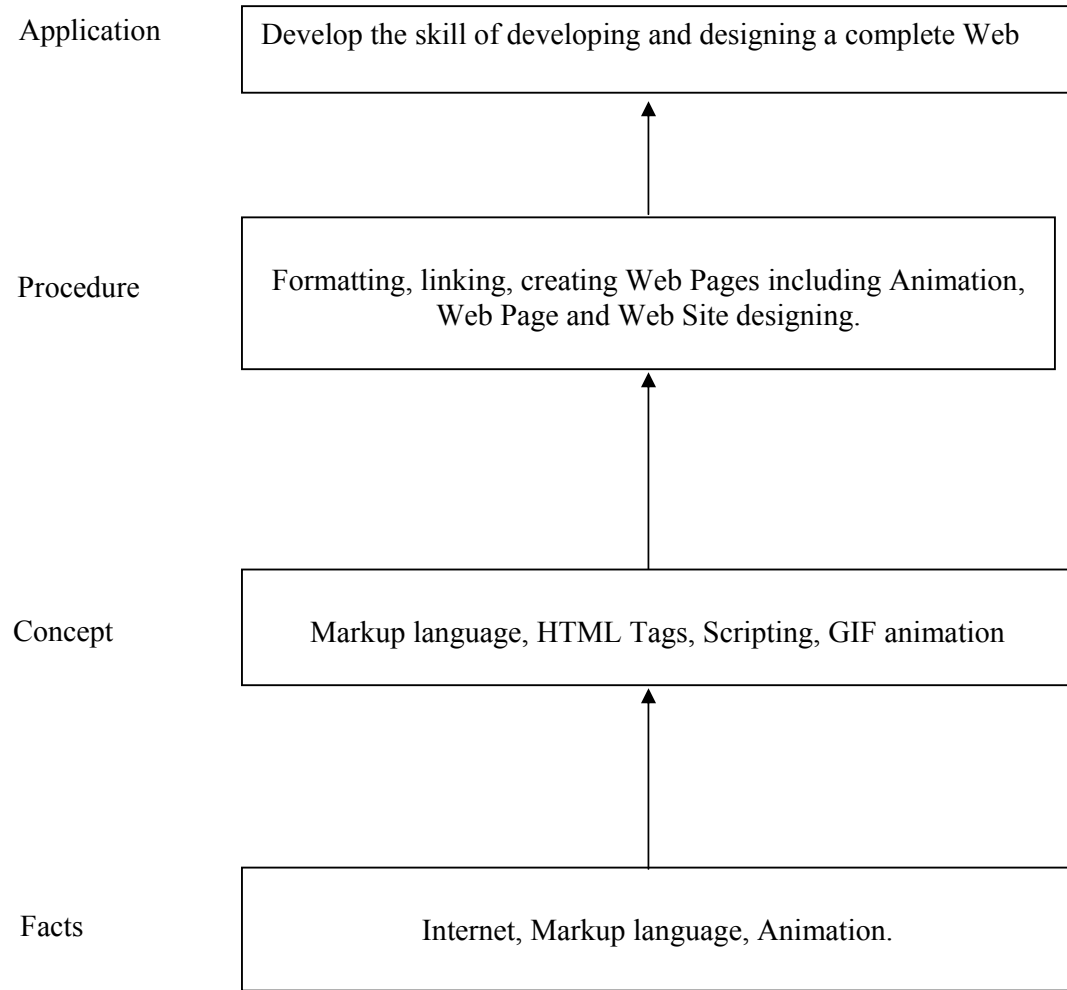
It is estimated that across the Internet, over 100 million domain names are in use. With fast and cheap broadband Internet connections available to the masses, online users now exceeding 500 millions. Tens of millions of users are now creating personal Web sites. It is a practical oriented subject which will enable student to develop Web sites.

Objectives:

The student will be able to

1. Design simple Web pages - using HTML
2. Organize information using Tables, collect information from users using forms & present information using Frames.
3. Use style sheets to gain full control of formatting within Web page.
4. Include JavaScript within Web pages.
5. Embed multimedia to Web pages.
6. Integrate all above to develop Web sites.

Learning structure:



Contents: Theory (To be covered during Practical periods)

Chapter	Name of the Topic
1	<p>HTML</p> <p>1.1 Introduction to HTML</p> <p>1.1.1 Terminologies used in Web Design: Web, Web site, Web page, Web server, Web Browser, Search Engine.</p> <p>1.1.2 Components of HTML: Tags – closed tags and open tags, Attributes, Elements.</p> <p>1.1.3 Structure Tags : !DOCTYPE, HTML, HEAD, TITLE, BODY tags.</p> <p>1.1.4 Block Level Elements : Headings, Paragraphs, Breaks, Divisions, Centered Text, Block Quotes, Preformatted text, Address.</p> <p>1.1.5 Text Level Elements : Bold, Italic, Teletype, Underline, Strikethrough, Superscript, subscript.</p> <p>1.1.6 Horizontal Rules.</p> <p>1.1.7 Special characters.</p> <p>1.1.8 Adding comments</p> <p>1.1.9 The Meta tag.</p> <p>1.2 Creating Lists</p> <p>1.2.1 Ordered Lists</p> <p>1.2.2 Unordered Lists</p> <p>1.2.3 Definition Lists</p> <p>1.2.4 Nested Lists</p> <p>1.3 Linking HTML Documents</p> <p>1.3.1 URL : Types of URLs, Absolute URLs, Relative URLs</p> <p>1.3.2 The Anchor Tag.</p> <p>1.3.3 Linking :</p> <p>To document in the same folder.</p> <p>To document in the different folder.</p> <p>To document on the web.</p> <p>To specific section within the document.</p> <p>1.3.4 Inserting E-mail links</p>
2	<p>IMAGES, COLORS AND BACKGROUNDS</p> <p>2.1 Images</p> <p>2.1.1 Image formats : gif, jpeg, png</p> <p>2.1.2 The inline image : an IMG tag, alternate text, image alignment, buffer space – HSPACE, VSPACE, wrapping text, height and width of images.</p> <p>2.1.3 Image as a link.</p> <p>2.1.4 Image maps : Server side image maps, Client side image maps.</p> <p>2.2 Colors and Backgrounds</p> <p>2.2.1 The text color : color attribute of FONT tag, text attribute of BODY tag.</p> <p>2.2.2 Background color : bgcolor attribute of BODY tag.</p> <p>2.2.3 Background images : background attribute of BODY tag.</p> <p>2.2.4 Changing link colors : link, alink, vlink attributes of BODY tag.</p>
3	<p>TABLES, FRAMES AND FORMS</p> <p>3.1 Tables</p>

	<p>3.1.1 Creating basic tables : TABLE, TR, TH, TD tags.</p> <p>3.1.2 Formatting tables : border, cellpadding, cellspacing, width, align, bgcolor attributes.</p> <p>3.1.3 Adding captions : CAPTION tag.</p> <p>3.1.4 Formatting contents in the table cells : align, valign, bgcolor, height, width, nowrap attributes.</p> <p>3.1.5 Spanning rows and columns : rowspan and colspan attributes.</p> <p>3.2 Frames</p> <p>3.2.1 Introduction to frames : What is frame?, Advantages and disadvantages of using frames.</p> <p>3.2.2 Creating frames : FRAMESET tag – rows, cols attributes, FRAME tag – name, frameborder, marginheight, marginwidth, src, resize, scrolling attributes.</p> <p>3.2.3 Use of NOFRAMES tag</p> <p>3.2.4 Frame targeting.</p> <p>3.3 Forms</p> <p>3.3.1 Creating basic form: FORM tag, action and method attributes.</p> <p>3.3.2 Form fields: Single line text field, password field, multiple line text area, radio buttons, check boxes.</p> <p>3.3.3 Pull down menus: SELECT and OPTION tags.</p> <p>3.3.4 Buttons: submit, reset and generalized buttons.</p> <p>3.3.5 Formatting technique: Using table to layout form.</p>
4	<p>STYLE SHEETS</p> <p>4.1 Adding style to the document: Linking to style sheets, Embedding style sheets, Using inline style.</p> <p>4.2 Selectors: CLASS rules, ID rules.</p> <p>4.3 Style sheet properties: font, text, box, color and background properties.</p>
5	<p>INTRODUCTION TO JAVASCRIPT</p> <p>5.1 Embedding JavaScript in HTML document.</p> <p>5.2 Variables, Constants, Adding comments.</p> <p>5.3 Operators: Assignment, Arithmetic and Comparison operators.</p> <p>5.4 Control structures and looping: if, if..else, for, for..in, while, do..while, break and continue.</p> <p>5.5 Event handlers: onClick, onMouseOver, onMouseOut, onSubmit, onReset, onFocus, onBlur, onSelect.</p>
6	<p>ANIMATION</p> <p>6.1 Creating a gif animation using gif animator.</p> <p>6.2 Controlling gif animation through internal setting of gif animator.</p> <p>6.3 Creating banner using gif animation.</p> <p>6.4 Creating smooth transition between gif animation frames using twinning.</p>

Assignments:

1. Design Web page and apply some block level tags and some text level tags.
2. Include Horizontal Rules and special characters in a Web page.
3. Design Web page and include different lists.
4. Include various links in a Web page

5. Include images with different alignments and wrapped text in Web page. Also include image as a link in the Web page.
6. Design a web page and set background colour and document wide text colour.
7. Design a web page with background image, different text colour for different paragraphs, and set colours for links, active links and visited links.
8. Create HTML table, format contents in table cells and span the rows and columns.
9. Create basic frameset and format the frames within the frameset using different attributes. Also use frame targeting.
10. Create a basic form using different input controls and pull down menu.
11. Use table to lay out form with different form controls and generalized buttons.
12. Create a web page and apply style sheet properties (font, text and box properties).
13. Create a web page to get watermark effect using style rules.
14. One script using controls structure and looping.
15. One script using event handlers.
16. Create GIF animation using GIF animator and incorporate in web page.
17. Create Banner Ad and incorporate in web page.

Mini Project:

Design a website using all topics mentioned in syllabus.

Learning Resources:**Books:**

Sr. No.	Author	Title	Publisher
01	Thomas Powell	HTML and XHTML – The complete reference	Tata McGraw Hill, New Delhi.
02	Jamsa, King, Anderson	HTML and Web Design – Tips and Techniques	Tata McGraw Hill, New Delhi.