

Course Title : Web Designing

Course Duration : 6 months

Paper Time : 3 hours

Max Marks: 75

Objective : This course will help the student to design & develop websites using HTML, Javascript and PHP.

Note:

1. Unit I of paper will consist 10 questions of MCQ or Fill in the blank type each of 1 mark.
2. Unit II of paper will consist 5 descriptive questions, each of 3 marks.
3. Unit III of paper will consist of 5 descriptive questions, each of 10 marks.
4. There may be choices in Unit II and Unit III but no choice in Unit I.

Section I

HTML : Introduction, Structure of HTML program, creating the HTML Document, Text Formatting : Paragraph breaks, line breaks, Heading(H1,H2...H6), Horizontal Rule, Preformatted Text, bold, Italic, Underline, <strike>, <Sub>, <Sup>, <center>, spacing, Font, marquee; Colorful web page : background image, background color, foreground color, changing colors of links, active links and visited links; Setting the margins: top margin, left margin bottom margin, right margins; creating the lists: ordered list, unordered list, definition list, nesting of lists; creating the links: hyperlinks, <a> anchor tag, absolute and relative URL, types of Hyperlinks: internal links and external links; linking to other portion of other web page using #;

Images : inserting image using , image as hyperlink, image mapping: linking different parts of image to different web page ; Creating tables: <table> tag, using rowspan , colspan, adding images as table data, adding links to table; Frames : Dividing the web document area to open Different Web pages using <Frameset> and <Frame>,Targeting the named Frames, inline frames ; Creating Forms : <Form> tag , action attribute, get method, post method, Form Controls : Textfield, Password Field, Range, Number Field, URL Field, Date Field, email Field, Radio buttons, Checkboxes, File Field, Push Button, Submit Button, Reset Button, Selection List : grouped and ungrouped, TextArea, Specifying the shortcuts for Fields.

Section II

Cascading Style Sheets: Introduction, Style Rules, Types of Style Sheets : inline style sheets using style attribute, embedded Style sheets using style tag, external style sheets using .css file , imported style sheets; CSS Syntax and Selectors: element selector, id selector, class selector; Grouping the selectors, CSS comments ; css Properties : font , margin, color and background, text, border; changing the cursor type ; hover ; specifying positions for elements : static, relative, fixed or absolute; changing the transparency level : opacity property; initial and inherit values of property; background-attachment property ; background position property ; background-size property; animation using CSS ; setting the

image behind the text : Z-index property; layers in CSS : using Div tag ; parallax effects using CSS; playing video in html document : playing video in background.

Section III

JavaScript : Introduction, Adding javascript to an html page : embedded scripts using <script> tag, external scripts using .js file; javascript fundamentals : tokens, variables, keywords, data types, constant, literals, comments, expression, operators, operator precedence and associativity, controls statements : decision control, looping and branching; functions : built-in functions such as: eval(), alert(), prompt(), , user-defined functions, categories of functions : passing parameters to functions, returning values ; Function expression; core language objects : Number, Boolean, Math : methods such as ceil(), exp(), floor(), max(), min(), pow(), random(), sqrt(),; Arrays : methods such as concat(), fil(), foreach(), indexOf(), join(), lastIndexOf(), pop(), push(), reverse(), shift(), slice(), sort(), toString(), valueOf(); String: String methods such as chaAt(), concat(), indexOf(), lastIndexOf(), replace(), slice(), substr(), toLowerCase() , toUpperCase(), toString(); Date; Event Handling: events: onclick(), ondblclick(), onfocus(), onkeydown(), onkeypress(), onkeyup(), onload(), onmouseover(),onreset(), onselect(), onsubmit(), onunload(); Dialog Boxes: alert, prompt and confirm ;

Form validation : accessing form data in javascript variables , processing it and apply validation on it,Access elements using name attribute of form and its elements or using id attribute (getElementById() method); using innerHTML property to add text from javascript to HTML tag ;

Javascript Client Side Objects : Window, Document, Form, Location, Navigator and History;

Window object : Creating and Opening a new window; setting up window features like toolbar, location, menu bar, height, width, resize, adding status etc. ; writing to window; moving a window; closing a window

Section IV

Introduction to PHP: Embedding PHP code in a Web Page, Basic Syntax, Defining variable and constant, PHP Data types, Operators and Expressions; Control Structures: Making Decisions, Doing Repetitive task with looping, File inclusion statements.; Functions: Defining a function, Call by value and Call by reference, recursive function, Library functions ; Strings: Creating and accessing String, Searching & Replacing String, Formatting String, String Related Library function ; Arrays: Anatomy of an Array, Creating index based and Associative array, Accessing array Element, Looping with associative array using each() and foreach() ; Some useful Library function: current(), next(), prev(), reset(), end(). Working with Forms: Super global variables, super global array, Importing and accessing user input, Combine HTML and PHP code; Working with files and Directories: Opening, closing, Coping, renaming and deleting a file, working with directories, File Uploading & Downloading.