

## Course: 305-1: Web Designing-1

<b>Course Code</b>	305
<b>Course Title</b>	Web Designing-1
<b>Credit</b>	4
<b>Teaching per Week</b>	4 Hrs
<b>Minimum weeks per Semester</b>	15 (Including class work, examination, preparation etc.)
<b>Review / Revision</b>	June 2021
<b>Purpose of Course</b>	Design is the process of collecting ideas, and aesthetically arranging and implementing them, guided by certain principles for a specific purpose. Web design is a similar process of creation, with the intention of presenting the content on electronic web pages, which the end- users can access through the internet with the help of a web browser. This course deals with designing of websites.
<b>Course Objective</b>	To make students aware of web terminology and website designing tools. Student can understand and implement the real functions of website development.
<b>Pre-requisite</b>	Basic knowledge of Simple HTML and HTML-5 concepts, windows based applications. Some very basic acquaintance with computers and the www is assumed.
<b>Course outcome</b>	<ul style="list-style-type: none"> <li>• Students will be able to create, organize and design websites.</li> <li>• Understand elements of design with regard to the web</li> <li>• Get to Grips with necessary functionalities elements</li> </ul>
<b>Course Content</b>	<p><b>Unit 1. Working with HTML5 and CSS:</b></p> <p>1.1 concepts of CSS:</p> <p>1.1.1 Adding CSS (Inline,Internal,External)</p> <p>1.1.2 HTML Links and attribute.( _self, _blank, _parent, _top)</p> <p>1.1.3 Absolute URL and Relative URL in &lt;href&gt;</p> <p>1.1.4 &lt;img&gt; tag and its attributes (src, alt, style,width,height)</p> <p>1.2 HTML forms :</p> <p>1.2.1 form Elements and their attributes :</p> <p>1.2.1.1 form (action, method, novalidate, autocomplete,target)</p> <p>1.2.1.2 label, input (text, radio button, Checkboxes, submit/reset button)</p> <p>1.2.1.3 select(id, name,&lt;option&gt;),</p> <p>1.2.1.4 textarea (name, rows, cols),</p> <p>1.2.1.5 button(type, onclick)</p> <p>1.2.1.6 datalist</p> <p>1.2.2 Media : Video, Audio</p> <p><b>Unit 2. Design Web Sites Using Bootstrap4</b></p> <p>2.1 Bootstrap Introduction</p> <p>2.2 Grid Structure</p> <p>2.3 Table, Colours, Alerts, Form Controls</p> <p>2.4 Buttons and ButtonGroups</p> <p>2.5 Images, Media Objects</p> <p>2.6 Pagination</p> <p>2.7 Bootstrap Grids</p> <p>2.8 Bootstrap Themes</p> <p><b>Unit 3. Overview of Java Script</b></p> <p>3.1 Overview of Client &amp; Server-SideScripting</p> <p>3.2 Structure of Java Script</p> <p>3.3 Data types and Variables</p>

	<p>3.4 Operators (Arithmetic, Assignment, Comparison, Logical and Conditional Operator)</p> <p>3.5 Control Structure</p> <p>3.5.1 If...Else, switch..case</p> <p>3.5.2 While, Do...While, For Loop</p> <p>3.5.3 break, continue</p> <p>3.6 Java Script String and Events</p> <p>3.6.1 Javascript Strings types</p> <p>3.6.2 String functions:</p> <p>concat(), split(), indexOf(), lastIndexOf(),substring(), trim(), slice(), replace(), charAt()</p> <p>3.6.3 Javascript Events :</p> <p>3.6.3.1 Mouse Events : (click, mouseover, mouseremove, mouseout, mouseup)</p> <p>3.6.3.2 keyboard Events : ( keyup,keydown)</p> <p>3.6.3.3 Form Event : (focus, submit, blur, change)</p> <p><b>Unit-4: JavaScript Objects :</b></p> <p>4.1 Creating object :</p> <p>(By object literal, By creating instance of Object, By using an object constructor)</p> <p>4.2 Date object :</p> <p>4.2.1 Date constructor: Date(), Date(milliseconds), Date(dateString), Date(year, month, day, hours, minutes, seconds, milliseconds)</p> <p>4.2.2 Date Methods: getDate(), getDay(),getMonth(), getHours(), setDate, setMonth(),setDay(), toString()</p> <p>4.3 Document Object Model (DOM):</p> <p>4.3.1 DOM concepts</p> <p>4.3.2 DOM properties</p> <p>4.3.3 DOM methods :</p> <p>write(), writeln(),getElementById(),getElementsByName()</p> <p><b>Unit-5: JavaScript Functions:</b></p> <p>5.1 JavaScript Functions:</p> <p>5.1.1 Defining function (with and without parameters)</p> <p>5.1.2 calling function</p> <p>5.1.3 return statement</p> <p>5.1.4 Page redirection</p> <p>5.2 Dialog boxes : Alert, confirm, prompt</p> <p>5.3 Form validation :</p> <p>5.3.1 Basic validation (All form details are filled)</p> <p>5.3.2 Data format validation (email, number, string, mobile number, name)</p> <p>[All Units carry Equal Weightage]</p>
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<b>Reference Books</b>	<ol style="list-style-type: none"> <li>1. HTML &amp; CSS: The Complete Reference - Thomas Powell - McGraw Hill Education</li> <li>2. HTML Unleashed, Darnell Rick –Techmedia</li> <li>3. HTML, XHTML, and CSS Bible - Steven M. Schafe - Wiley Publications</li> <li>4. Cascading Style Sheets- The Definitive Guide, E. A Meyer –O'Reilly</li> <li>5. Java Scripting Programming for Absolute Beginner, Harris -PHI</li> <li>6. JavaScript Step by Step, Suehring -PHI</li> <li>7. Bootstrap in 24 Hours, Sams Teach Yourself - JenniferKyrnin</li> <li>8. Learning Bootstrap 4 - Matt Lambert – Packt Publishing</li> <li>9. Bootstrap Responsive Web Development - Jake Spurlock - O'Reilly Media.</li> <li>10. JavaScript and JQuery (Interactive Front-End Web Development) by Jon Duckett</li> <li>11. JavaScript and JQuery (The missing manual) by David Sawyer MCFarland</li> </ol>
<b>Teaching Methodology</b>	Class Work, Discussion, Self-Study, Seminars and/or Assignments
<b>Evaluation Method</b>	30% Internal assessment. 70% External assessment.