

## WEB DEVELOPMENT COURSE

Course name :	Web Development Course
Course level :	Beginner
Course duration :	3 Months
Lectures per month:	12 Lectures per month, 3 Lectures per week
Course language:	English
About this course:	
Learning objectives:	<p>At the end of this course, the student will able to</p> <ul style="list-style-type: none"> <li>Design webpage using HTML</li> <li>Format webpage using CSS</li> <li>Design an interactive webpage using javascript</li> </ul>
Requirements:	<p>You will need the following softwares –</p> <p>Browser</p> <p>Notepad++</p> <p>Microsoft Web Expression 4</p>
Target Audience:	<p>Students from grade 8 onwards,</p> <p>Working professional</p>
Curriculum:	Curriculum is given below in the table.

	<b>Web Development Course Content</b>	<b>Lectures</b>
Chapter 1	1. Web Programming Introduction	1
Chapter 2	<b>2. HTML Introduction</b>	
	2.1 What is HTML 2.2 HTML Structure 2.3 What are HTML Tags and Attributes 2.4 Types of Tags 2.5 Write a small program using HTML	

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Chapter 3	3. HTML – Basic formatting tags	2
	<p>3.1 Formatting tags</p> <ul style="list-style-type: none"> <li>• &lt;B&gt; Tag</li> <li>• &lt;I&gt; Tag</li> <li>• &lt;U&gt; Tag</li> <li>• &lt;Center&gt; Tag</li> <li>• &lt;SUP&gt; Tag</li> <li>• &lt;SUB&gt; Tag</li> <li>• &lt;Small&gt; Tag</li> <li>• &lt;Big&gt; Tag</li> <li>• &lt;Strike&gt; Tag</li> </ul>	
	<p>3.2 Heading Tags</p> <ul style="list-style-type: none"> <li>• &lt;H1&gt;...&lt;H6&gt; Heading Tags</li> <li>• Design small web page using formatting and heading tags.</li> </ul>	
	<p>3.3 Color coding</p> <ul style="list-style-type: none"> <li>• Apply color using color name</li> <li>• Apply color using RGB format</li> <li>• Apply color using Hexadecimal format</li> </ul>	
Chapter 4	4. HTML List	2
	<p>4.1 Unordered List</p> <p>4.2 Ordered List</p> <p>4.3 Definition List</p> <p>4.4 Nested List</p> <p>4.5 Design web page using HTML list tags</p>	
Chapter 5	5. HTML-Images and Hyperlink	2
	<p>5.1 Insert image using &lt;IMG&gt; tag</p> <p>5.2 Attributes of &lt;IMG&gt; tag</p> <p>5.3 Hyperlink an image</p> <p>5.4 Image mapping</p> <p>5.5 Text Links</p>	

	<p>5.6 Absolute vs. Relative Paths</p> <p>    5.6.1 Absolute Paths</p> <p>    5.6.2 Relative Paths</p> <p>5.7 Default Pages</p> <p>5.8 Targeting New Windows</p> <p>5.9 Email Links</p> <p>5.10 Adding Links</p> <p>5.11 Targeting a Specific Location on the Page</p> <p>5.12 The title Attribute</p>	
Chapter 6	6. HTML Tables	2
	<p>6.1 Creating Tables</p> <p>6.2 Adding a Caption</p> <p>6.3 thead, tbody, and tfoot</p> <p>6.4 Merging Cells</p> <p>6.5 Creating Tables</p>	
Chapter 7	7. Audio and Video	2
	<p>7.1 Supported Media Types</p> <p>7.2 The audio Element</p> <p>    7.2.1 Audio Formats</p> <p>    7.2.2 audio Tag Attributes</p> <p>7.3 The video Element</p> <p>    7.3.1 video Tag Attributes</p>	
Chapter 1	<b>1. CSS Introduction</b>	2
	<p>1.1 Benefits of Cascading Style Sheets</p> <p>1.2 CSS Rules</p> <p>1.3 CSS Comments</p> <p>1.4 Selectors</p> <p>    1.4.1 Type Selectors</p> <p>    1.4.2 Class Selectors</p> <p>    1.4.3 ID Selectors</p>	

	<ul style="list-style-type: none"> <li>1.4.4 Attribute Selectors</li> <li>1.4.5 The Universal Selector</li> <li>1.4.6 Grouping</li> <li>1.5 Units of Measurement                             <ul style="list-style-type: none"> <li>1.5.1 Absolute vs. Relative Units</li> <li>1.5.2 Pixels</li> <li>1.5.3 Ems and Rems</li> <li>1.5.4 Percentages</li> </ul> </li> <li>1.6 &lt;div&gt; and &lt;span&gt;                             <ul style="list-style-type: none"> <li>1.6.1 Exercise: Divs and Spans</li> </ul> </li> </ul>	
Chapter 2	2. External Stylesheets, Embedded Stylesheets, and Inline Styles	1
	<ul style="list-style-type: none"> <li>2.1 External Stylesheets</li> <li>2.2 Embedded Stylesheets</li> <li>2.3 Inline Styles</li> <li>2.4 Exercise: Creating an External Stylesheet</li> </ul>	
Chapter 3	3. CSS Fonts	1
	<ul style="list-style-type: none"> <li>3.1 font-family</li> <li>3.2 font-size</li> <li>3.3 font-style</li> <li>3.4 font-variant</li> <li>3.5 font-weight</li> </ul>	
Chapter 4	4. Color and Opacity	1
	<ul style="list-style-type: none"> <li>4.1 About Color and Opacity</li> <li>4.2 Color and Opacity Values                             <ul style="list-style-type: none"> <li>4.2.1 Color Keywords</li> <li>4.2.2 RGB Hexadecimal Notation</li> </ul> </li> <li>4.3 Opacity</li> <li>4.4 Exercise: Adding Color and Opacity to Text</li> </ul>	
Chapter 5	5. CSS Text	1

	<ul style="list-style-type: none"> <li>5.1 letter-spacing</li> <li>5.2 text-align</li> <li>5.3 text-decoration</li> <li>5.4 text-indent</li> <li>5.5 text-shadow</li> <li>5.6 text-transform</li> <li>5.7 white-space</li> <li>5.8 word-break</li> <li>5.9 word-spacing</li> </ul>	
Chapter 6	6. Border, Margins and Padding	1
	<ul style="list-style-type: none"> <li>6.1 Padding</li> <li>6.2 Margin</li> <li>6.3 Border                             <ul style="list-style-type: none"> <li>6.3.1 border-width</li> <li>6.3.2 border-style</li> <li>6.3.3 border-color</li> <li>6.3.4 border-radius</li> </ul> </li> <li>6.4 box-sizing</li> <li>6.5 box-shadow</li> </ul>	
Chapter 7	7. Working with Table	1
	<ul style="list-style-type: none"> <li>7.1 Table Borders</li> <li>7.2 Collapse Borders</li> <li>7.3 Table Width and Height</li> <li>7.4 Text Alignment</li> <li>7.5 Table Padding</li> <li>7.6 Table Color</li> </ul>	
Chapter 8	8. The CSS Cascade	1
	<ul style="list-style-type: none"> <li>8.1 Background Color</li> <li>8.2 Background Image</li> <li>8.3 Background Image – Repeat Horizontally or Vertically</li> <li>8.4 Background Image – Set position and no-repeat</li> </ul>	

Chapter 1	<b>1. Introduction to Javascript</b>	2
	<ul style="list-style-type: none"> <li>1.1 An introduction to Javascript</li> <li>1.2 What is ECMAScript?</li> <li>1.3 The HTML DOM</li> <li>1.4 JavaScript Syntax</li> <li>1.5 Accessing Elements</li> <li>1.6 Dot Notation</li> <li>1.7 Square Bracket Notation</li> <li>1.8 Where Is JavaScript Code Written?</li> <li>1.9 JavaScript Objects, Methods and Properties</li> </ul>	
Chapter 2	<b>2. Variables, Arrays and Operators</b>	3
	<ul style="list-style-type: none"> <li>2.1 JavaScript Variables</li> <li>2.2 Variable Naming</li> <li>2.3 Storing User-Entered Data</li> <li>2.4 Constants</li> <li>2.5 Arrays</li> <li>2.6 Associative Arrays</li> <li>2.7 Array Properties and Methods</li> <li>2.8 Playing with Array Methods</li> <li>2.9 JavaScript Operators</li> <li>2.10 The Modulus Operator</li> <li>2.11 The Default Operator</li> </ul>	
Chapter 3	<b>3. Javascript Functions</b>	2
	<ul style="list-style-type: none"> <li>3.1 Global Objects and Functions                             <ul style="list-style-type: none"> <li>3.1.1 parseFloat(object)</li> <li>3.1.2 parseInt(object)</li> <li>3.1.3 isNaN(object)</li> </ul> </li> <li>3.2 User-defined Functions</li> <li>3.3 Function Syntax</li> <li>3.4 Passing Values to Functions</li> <li>3.5 Returning Values from Functions</li> </ul>	

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Chapter 4	4. Built-In JavaScript Objects	2
	4.1 String 4.2 Math 4.3 Date	
Chapter 5	5. Conditionals and Looping statements	5
	5.1 if - else if - else Conditions 5.2 Switch / Case 5.3 Ternary Operator 5.4 Loops 5.4.1 while Loop Syntax 5.4.2 do while Loop Syntax 5.4.3 for Loop Syntax 5.4.4 for of Loop Syntax 5.4.5 for in Loop Syntax 5.5 break and continue 5.6 Array: forEach()	
Chapter 6	6. Event Handlers and Listeners	2
	6.1 On-Event Handlers 6.2 The getElementById() Method 6.3 The addEventListener() Method 6.4 Capturing Key Events 6.5 Benefits of Event Listeners 6.6 Timers	