



Course Code	
Course Name	Front End Technologies: HTML5, CSS3 and Bootstrap

Duration (in days)	4	Proficiency Level	Fundamental
Pre-requisites	Object Oriented Concepts	Target Audience	Campus Hires

Learning Outcome

Upon successful completion of this course, participants will be able to

- Work with HTML tags, create web pages and link them
- Work with HTML5 new elements
- Change the look and feel of a webpage using Cascading Style Sheets (CSS)
- Do HTML5 styling with CSS and manage User experience across multiple browsers
- Learn how to download and install bootstrap into the website
- Learn to make a website much more responsive

Day-wise Session Plan

Day	Unit	Objectives	Hours
1	HTML Fundamentals	HTML HTML documents Using doctype The head element Using <head> The body element Using id and class attributes HTML Text Headings Block and Inline Elements Whitespace Additional Text Elements Itst Types Creating Lists List Types Creating Lists List Rendering HTML Links Link concepts Linking Documents Understanding Targets Linking to Targets Additional Link Attributes HTML Tables Table Elements Structuring a Table Table Data Spanning Columns and Rows</head>	4



	Farmation Tables	<u> </u>
	Formatting Tables Table Formatting	
	 Table Formatting HTML Images and Objects 	
	Image and Objects Image and Object Concepts	
	Adding Images	
	Adding Mages Adding Objects	
	HTML forms fundamentals	
	Form Basics	
	• Form Settings	
	HTML form inputs	
	• Text inputs	
	Selections	
	Input attributes	
	Input cumbates Input commands	
HTML Forms	Organizing HTML forms	4
	• Labels	
	• Fieldsets	
	• Tab index	
	Access keys	
	HTML form scenarios	
	Scripting forms	
	Handling multiple forms	
	Uploading files	
	What's new in HTML5	
	What is HTML5?	
	New HTML5 Elements	
	New JavaScript APIs	
	When is HTML5 Fully Compliant with All	
	Browsers?	
	Markup Example Before and After HTML5	
	Detecting HTML5 Features	
	Semantic HTML	
	What Is Semantic HTML?	
	Auditing a Site for Semantic Issues	
	Auditing Our Project for Semanticism	
	Sectioning and Grouping Elements	
	Semantics and Screen Readers	
	Main Flow Content	
	Marking up Main Flow Content	
HTML5 Fundamentals	Headings and Implicit Sections	8
	Creating Our Outline Using Headings	
	HTML Outlines	
	Outlines in HTML4 vs. HTML5	
	Finishing up Our Outline	
	Text-level Semantic Elements	
	Semantic Forms	
	Final Remarks on Semanticism	
	DOM Selection	
	Selection Basics	
	Features of Selection API	
	Forms	
	New Input Types?	
	New Input Types: Markup Review	
	New Input Types: In Different Browsers	
	 to Native Validation 	



		 Exposing Custom Validation Messages: Part 1 Native Validation Rules Exposing Custom Validation Messages: Part 2 Custom Validation Rules Bootstrap Validation Module: Demo and Markup 	
2	HTML5 Styling with CSS3	NTML5 Design XHTML vs. HTML5 Building with HTML5 HTML5 Audio & Video HTML5 Video Captions HTML5 & Geolocation Styling with CSS3 Overview of CSS Adding CSS3 and How Fonts Colors Shadowing Rounded Corners Gradients Transforms Form Inputs CSS3 Color & Opacity CSS3 Text: Selection & Columns CSS3 Text: Gent-face & Shadows CSS3 Images CSS3 Effects Advanced CSS3 Animations CSS3 Walkthrough How We Solve Problems Exercise: Build an American Flag Flag: Layout Flag: Resets Flag: Data Attributes and Stripes Flag: Stars Flag: Wrap-up User Experience Across Multiple Browsers Challenges with Browsers Fallbacks Feature Detection Usage Scenario	8
3	Bootstrap	Bootstrap CSS Overview Bootstrap Typography Bootstrap Tables Bootstrap Forms Bootstrap Buttons Bootstrap Images Bootstrap Navbar Total	8
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