

Web Designing / Front End Web Development

Duration: 2 Months (Weekdays Batch)/10 Weekends (Weekend Batch)

Prerequisites

- There is no pre-requisite for this course

HTML: Hyper Text Markup Language

1. HTML Basic

- What is Markup Language
- Basic Structure of HTML
- Meta Tags
- External Link Tags

2. HTML Elements

- Basics, Elements , Attributes
- Paragraphs and Formatting
- HTML Skeleton, Links
- Creating an HTML Document
- Basic Content Structure
- Headings
- Horizontal Rules
- Line Breaks

3. Images

- Optimizing web graphics - JPEG, GIF & NG
- Getting images from Photoshop
- Embedding Images in a Web Page
- Using Graphics as Links
- Using Background Images
- Setting image properties via HTML

4. Hyperlinks

- Href, Name, Title, Target

5. Lists

- Creating Unordered & Ordered Lists
- Creating Nesting Lists
- Creating Definition List

6. Div & Tables

- Creating of Div Tag
- Creating and Modifying Tables
- Formatting Tables
- Table Headers and Captions

7. Form

- Name, Action, Method
- Text, Hidden, Password
- Radio Button, Checkbox
- Select, Textarea
- Submit, Reset, Button

8. HTML5

- HTML5 Structural Elements
 - Section, Article, Aside
 - Header, Hgroup
 - Footer, Nav
- HTML5 Content Elements
 - Figure, Figcaption, Video
 - Audio, Embed, Canvas
- HTML5 New Application Focused Elements
 - Meter, Details, Summary
 - Progress, Time
- HTML5 Input Types
 - Color, date, datetime
 - email, month, number
 - range, search, tel
 - time, url, week
- HTML5 Form Attributes
 - autocomplete
 - novalidate
 - form/formaction
 - autofocus
 - multiple
 - pattern(regex)
 - placeholder
 - required

CSS: Cascading Style Sheet

1. Understanding CSS:

- Versions of CSS
- Types of CSS Rules
- CSS and Markup Languages

2. CSS Basics:

- Adding Styles to an HTML Tag
- Adding Styles to a Web Page and Web Site
- Redefining an HTML Tag
- Defining Classes to Create Your Own Tags
- Defining IDs to Identify an Object
- Defining Styles with the Same Rules
- Adding Comments to CSS
- Style Sheet Strategies

3. Font Properties:

- Understanding Typography on the Web
- Setting the Font Size
- Making Text Italic and Setting Bold, Bolder, Boldest
- Creating Small Caps
- Setting Multiple Font Values

4. Text Properties

- Adjusting Text Spacing
- Setting Text Case
- Aligning Text Horizontally and Vertically
- Indenting Paragraphs
- Setting Text and Foreground Color
- Decorating Text
- Setting Text Direction
- Setting Page Breaks for Printing

5. Color and Background Properties

- Choosing Color Palettes
- Setting Text and Foreground Color
- Setting a Background Color
- Setting a Background Image
- Setting Multiple Background Values

6. Box Properties

- Setting an Element's Margins
- Setting an Element's Border
- Setting an Element's Outline
- Setting an Element's Padding
- Setting the Width and Height of an Element

7. CSS Border

- Border, width, color, style

8. Positioning

- Static, relative, absolute
- Fixed, z-index

9. Floating

- None, left, right
- Initial, inherits

10. Pseudo – elements and CSS classes

11. CSS List

- list-style
- list-style-image
- list-style-position
- list-style-type

12. CSS3

- Borders
- CSS3 Backgrounds
- CSS3 Gradients
- CSS3 Shadows
- CSS3 Text Effects
- CSS3 Fonts
- CSS3 2D/3D Transforms
- CSS3 Transitions
- CSS3 Animations
- CSS3 Multiple Columns

13. Create a Layout Using CSS Property

JavaScript Introduction

1. **Statements & Comments**
2. **Variables**
3. **Data types**
4. **Operators**
5. **Conditional Statements and Loops**
6. **User Defined Functions**
7. **HTML Events**
 - Window Event Attributes
 - onload
 - onunload
 - Form Events
 - onblur
 - onchange
 - onfocus
 - oninput
 - onselect
 - onsubmit
 - Keyboard Events
 - onkeydown
 - onkeypress
 - onkeyup
 - Mouse Events
 - onclick
 - ondblclick
 - onmouseover
 - onmouseout
 - onmousedown
 - onmouseup
8. **JS Validations**

Advanced JavaScript

1. **JavaScript Basics**
 - Refreshing Basic JavaScript Concepts
 - Defining Functions
 - Arrays & Objects in JS
 - Date & Math Object
 - String Methods
 - Set timeout & Set Interval Function
2. **The DOM Objects**
 - Introduction to DOM object
 - DOM Methods
 - Access & Modify HTML through DOM
 - Event Listners
 - DOM Navigation
 - Dynamic Content Handling
- Session Storage
- Local Storage
3. **Advance JavaScript Overview**
 - Arrays & Objects redefined
 - JS Hoisting for variables & Functions
 - Functions in depth
 - JS Prototype
 - This Keyword in JS
4. **Getting Into Advance JS**
 - OOJS concept
 - Classes & Instances
 - Exception Handling in JS
 - Constructors & Inheritance

JQuery

1. **Introduction**
 2. **JQuery Syntax**
 3. **jQuery Selectors**
 4. **jQuery Events**
 5. **jQuery Effects**
 - jQuery Hide/Show
 - jQuery Fade
 - jQuery Slide
 - jQuery Animate
 - jQuery Stop()
 - jQuery callback
 - jQuery chaining
 6. **JQuery HTML**
 - jQuery Get
 - jQuery Set
 - jQuery Add
 - jQuery Remove
 - jQuery CSS Classes
 - jQuery CSS
 7. **jQuery Misc**
 - jQuery noConflict()
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Ajax

1. AJAX with JavaScript

- Why AJAX & How it works
- Syntax (XMLHttpRequest Object)
- Sending Requests to server
- Processing Response

- AJAX Events
- Example with PHP Server

5. JQuery AJAX

- jQuery load
- jQuery Get/Post

Bootstrap

1. How to Create a Layout in Bootstrap

- Grid Classes

2. Basic Tags in Bootstrap

- Contextual colors and backgrounds

3. Table in Bootstrap

- Bootstrap Basic Tables
 - Striped Rows
 - Bordered Table
 - Hover Rows
 - Condensed Table
 - Contextual Classes
 - Responsive Tables

4. Navigation bar in Bootstrap

- Inverted Navigation Bar
- Fixed Navigation Bar
- Navigation Bar with Dropdown

- Right-aligned Navigation Bar
- Collapsing the Navigation Bar

5. Form in Bootstrap

- Vertical Form
- Horizontal Form
- Inline Form

6. Buttons in Bootstrap

- Button Styles
- Button Sizes
- Block Level Buttons
- Active/Disabled Buttons

7. Images in Bootstrap

- Rounded Corners Image
- Circle Image
- Thumbnail Image

Wordpress –Content Management System

- What is CMS?
 - What is Wordpress?
 - Features Of Wordpress
 - What is Plugins?
 - What is Widgets?
 - Installation Of Wordpress
 - How to install pages and posts?
 - How to Active widgets?
 - How to install plugins?
 - How to install Wordpress theme?
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