

# Web Designing / Front End Web Development

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

## Prerequisites

- There is no pre-requisite for this course

## HTML: Hyper Text Markup Language

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### 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(regexp)
  - placeholder
  - required

## CSS: Cascading Style Sheet

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### 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
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- 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

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- 1. Introduction**
  - 2. Statements & Comments**
  - 3. Variables**
  - 4. Data types**
  - 5. Operators**
  - 6. Conditional Statements and Loops**
  - 7. User Defined Functions**
  - 8. 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
  - 9. JS Validations**
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## Advanced JavaScript

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### 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 Listeners

### 3. Advance JavaScript Overview

- 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

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### 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()

## Ajax

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### 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

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### 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
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