

## Front End Development

Duration:  
150 Hrs.

### Introduction to Web Technologies

- How the Website Works
- Client and Server Scripting Languages
- Domains and Hosting
- Responsive Web Designing
- Types of Websites (Static and Dynamic Websites)

### HTML and XHTML

- What is Markup Language
- Basic Structure of HTML
- Difference Between HTML and XHTML
- Head Section and Elements of Head Section
- Meta Tags
- CSS Tags
- Script Tag
- Table Tag
- Div Tag
- Header Tags
- Paragraph, Span, Pre Tags
- Anchor Links and Named Anchors
- Image Tag
- Object Tag

- Iframe Tag

#### Forms

- Form Tag
- Attributes of Form
- POST and GET Method
- Fieldset and Legend
- Text input, Text area
- Checkbox and Radio Button
- Dropdown, List and Option group
- File Upload and Hidden Fields
- Submit, Image, Normal, Reset Button
- Creating a Live Website Form
- HTML Validators

### HTML

- Introduction to HTML
- Features of HTML
- New Structure Tags
- Section
- Nav
- Article
- Aside
- Header
- Canvas and Svg Tag
- Introduction to HTML Forms
- Placeholder Attribute
- Require Attribute
- Pattern Attribute
- Autofocus Attribute
- email , tel, url types
- number type

- Footer
- Designing a HTML Structure of Page
- New Media Tags
- Audio Tag
- Video Tag
- date type
- range type
- voice search
- Examples of Form

## Adobe Dreamweaver

- Introduction to Adobe Dreamweaver
- Dreamweaver Interface Basics
- Defining a Dreamweaver site
- Insert Toolbar
- Common Tools
- Layout Tools
- Forms Tool
- Spry Tools
- Properties Panel
- Using Snippets panel
- Dreamweaver extensions
- Template Design in DW
- Editable and Non-Editable Regions
- Defining the DWT for project
- Creating subpages for project

## CSS

- Introduction to Cascading Style Sheets
- Types of CSS
- CSS Selectors
- Universal Selector o ID Selector
- Tag Selector
- Class Selector
- Sub Selector
- Child Combinatory Selector
- Adjacent Sibling Selector
- Attribute Selector o Group selector
- First-line and First-letter selector
- Before and After Selector
- CSS Properties o Type Properties
- Background Properties
- Block Properties
- Box Properties
- List Properties
- Border Properties
- Positioning Properties
- Real-time Implementation
- Conversation of Table to CSS Layout
- CSS Menu Design (Horizontal, Vertical)
- Form Designing

## Responsive Web Design with Bootstrap

- Introduction to Responsive Design
- Mobile first design concepts
- Common device dimensions
- View-port tag
- Using CSS media queries
- Menu conversion script
- Introduction to Bootstrap
- Installation of Bootstrap
- Grid System
- Forms
- Buttons o Icons Integration
- Using CSS3 in Practical Layout

- Basic Custom Layout

## Java Script

- Introduction to Client Side Scripting
- Introduction to Java Script
- JavaScript Types
- Variables in JS
- Operators in JS
- Conditions Statements
- Java Script Loops
- JS Popup Boxes
- JS Events
- JS Arrays
- Working with Arrays
- JS Objects
- JS Functions
- Using Java Script in Real-time
- Form Validation
- Related Examples

## jQuery and jQuery UI

- Introduction to jQuery
- jQuery Features
- Installing jQuery
- jQuery Syntax
- jQuery Ready Function
- jQuery Selectors
- jQuery Actions
- jQuery plugins
- Query Validation plugin
- jQuery Slideshow
- jQuery Dropdown
- jQuery UI
- Working with jQueryUI
- jQuery Accordions
- jQuery Tabs
- jQuery Tooltips
- jQuery Autocomplete

## Web Hosting

- Web Hosting Basics
- Types of Hosting Packages
- Registering domains
- Defining Name Servers
- Using Control Panel
- Creating Emails in Cpanel
- Using FTP Client
- Maintaining a Website

## Typescript

- Introduction to TypeScript
- TypeScript Advantages
- TypeScript – Functions
- TypeScript - Arrow Functions
- Function Overloading
- TypeScript - Rest Parameters
- TypeScript – Interfaces
- TypeScript – Class
- Inheritance, Method Overriding
- TypeScript – do.. while loop
- TypeScript - Type Annotations
- TypeScript – Variable
- Template String
- TypeScript – Tuples
- TypeScript Data Type – Enum
- Type Modules
- Assertion
- Data Modifiers - public private protected

- TypeScript - if else, Switch, Loop
- Abstract Class

## Angular

- Introduction
- Install Angular, Update NPM
- Install Angular CLI
- Install Visual Studio Code
- Create Angular Application
- Run Angular Application Development Server **Error! Bookmark not defined.**
- Angular Component, HTML Template
- Generate Angular Component using Angular CLI
- Event Binding, Interpolation
- Two-way-Data Binding
- Two-way-Data Binding using getter and setter method
- Event Binding using '\$event'
- Angular Form
- Template Driven Form
- Model Driven Form
- Form Validation
- Adding Global style-application wide
- Array List using Interface
- Creating child component
- Directives, Pipes, User Defined Pipe
- Routing, Services
- CRUD Example
- Template-Driven Form Validation
- Modal Example

## Exit Profile : Front-end Web Developer

Certificate & Placement assistance will be provided after completion of the course & clearing exams.

### Course Objective :

Front-end Web Development certification course is designed by experienced professionals to match the current industry requirements and demands. You will learn the importance of HTML, CSS, JavaScript jQuery UI in real time environment.