## JavaScript & jQuery UI Training

Duration:  60 Hrs.

## Course Highlights :

### Basics of JavaScript

- Introduction to JavaScript

- Embedding the JavaScript Code

- Calling an External JavaScript File

- Placing the JavaScript Code Inline

- Positioning of Script inside HTML Document

- JavaScript Variables

- The let and const Keywords

- Various types of datatype

- JavaScript Operator

    - Arithmetic Operators

    - Assignment Operators

    - String Operators

    - Incrementing and Decrementing Operators

    - Logical Operators

    - Comparison Operators

- JavaScript Events

    - Understanding Events and Event Handlers

    - Mouse Events

    - Keyboard Events

    - Form Events

    - Document/Window Events

    - JavaScript Strings

- Working with numbers
- Conditional Statements and Loops
  - The if...else if....else statement
  - The switch...case statement
  - While,for,do..while
- Arrays
  - Define Array
  - Creating & Accessing Array Elements
  - Adding & removing element to an array
  - Extracting a portion of an array
  - Merging two or more array
  - Array searching and Sorting
- Functions
  - Defining and Calling a Function
  - Adding Parameters to Functions
  - Understanding variable scope

## JavaScript & DOM

- DOM Nodes
- DOM Selectors
  - Selecting the Topmost Elements
  - Selecting Elements by ID, Class Name, CSS Selectors
- DOM Styling
  - Setting Inline Styles on Elements
  - Getting Style Information from Elements
  - Adding CSS Classes to Elements
- DOM Get Set Attributes
  - Getting or Setting Element's Attribute Value

- Removing Element's Attribute Value
- DOM Manipulation
  - Adding New Elements to DOM
  - Getting or Setting HTML Contents to DOM
- DOM Navigation
  - Navigating Between DOM Nodes
  - Accessing Nodes

## JavaScript & BOM

- The Window and Location Object
- Getting the Current Page URL
- Loading New Documents
- Reloading the Page Dynamically
- The History Object
  - Getting the Number of Pages Visited
  - Going Back to the Previous Page
  - Going Forward to the Next Page
  - Going to a Specific Page
  - The Navigator Object
  - Working with Timers

## Date and Time

- Creating a Date Object
- Getting the Current Date and Time
- Getting and Setting specific Date and Time Components

## Math Operations

- Generating a Random Number
- Calculating the Square Root of a Number
- Finding the Largest and Smallest Numbers

- Raising Numbers to a Power

## Type Conversions

- Automatic Type Conversions
- Object to Primitive Conversions

## Event Listeners

- Understanding Event Listeners
- Adding Event Listeners for Different Event Types
- Removing Event Listeners

## JSON Parsing

- Definition of JSON
- Parsing JSON Data in JavaScript
- Parsing Nested JSON Data in JavaScript
- Encoding Data as JSON in JavaScript

## Error Handling

- Handling Errors
- The try...catch...finally Statement

## Regular Expressions

- Defining Regular Expressions
- Pattern Matching with Regular Expression

## Form Validation

- Understanding Client-Side Validation
- Form Validation with JavaScript

## Cookies

- Creating a Cookie
- Reading a Cookie
- Deleting a Cookie

## Ajax

- Understanding How Ajax Works

- Sending Request and Retrieving the Response

- Performing an Ajax GET and POST Request

## Image Map

## 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

# Final Project

Exit Profile : Responsive Web Developer

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

Course Objective :

This JavaScript JQuery UI Training is designed to build dynamic, responsive, and interactive web applications by mastering concepts like jQuery Traversing, jQuery Events and effects, AJAX using jQuery, UI Widgets. You will learn the importance of JavaScript jQuery UI in real time environment.