Introduction to HTML and JavaScript

Modality: On Demand

Duration: 15 Hours

About this course:

This computer science course presents HTML, JavaScript, and CSS as markup and programming languages that are used to develop web applications. The student will gain involvement in every language individually and afterward combine them together to make the solutions for a compelling web application. The student will have a chance to utilize Visual Studio Code on their operating arrangement of choice to make and test their web applications.

This course shows essential undertakings that are important to make web applications with a solid semantic structure, custom interactive highlights, and re-usable style components. This course includes hands-on labs that empower the student to construct essential HTML pages that are the components of a web application used to take care of the issues of the real-world.

Course Objective:

- Simple HTML structure and markup.
- Elementary CSS Style Definitions
- Advanced HTML elements and components.
- A choice of External Libraries for HTML Applications
- Fundamental JavaScript Programming
- Document Structure and Layout
- Capturing User Input
- HTML5 Semantic Elements
- Introduction to CSS
- Style Definitions
- Style Inheritance
- Box Model
- Scalable Vector Graphics (SVG)
- Implementing Media Controls
- Introduction to JavaScript
- JavaScript Types
- JavaScript Callbacks
- Advanced JavaScript

Audience:

Programmer

Prerequisites:

Some light involvement in software advancement is useful however not necessary.

Course Outline:

Module 1: Creating Web Pages using Hypertext Markup Language (HTML)

- Introduction to HTML
- Document Structure and Layout
- Basic HTML Elements
- Formatting HTML Elements
- Hyperlinks
- Homework
- Assessment

Module 2: Creating Sophisticated Document Structures using HTML

- Capturing User Input
- HTML5 Semantic Elements
- Scalable Vector Graphics (SVG)
- Implementing Media Controls
- Homework
- Assessment

Module 3: Design Web Page Elements using Cascading Style Sheets (CSS)

- Introduction to CSS
- Style Definitions
- Style Inheritance
- Box Model
- Fonts
- Homework
- Assessment

Module 4: Implementing Program Flow using JavaScript

- Introduction to JavaScript
- JavaScript Types
- JavaScript Callbacks
- Advanced JavaScript
- HTML5 APIs
- Homework
- Assessment

Module 5: Adding External Libraries to Enhance HTML Applications

- Overview
- jQuery
- AngularJS
- Bootstrap
- TypeScript

- Sass
- Homework
- Assessment?