

HTML

1.Introduction to Web Development

2.What is HTML

3.A Typical HTML Document

4.The “!DOCTYPE HTML” Declaration

5.Basic HTML Elements(<head>, <body>, <h1>, <p>, <div>, , <i>, <a>,
)

6.Nested Elements

7.HTML Attributes

8.HTML Entities

9.Creating a List in HTML

9.1 Unordered List()

9.2 Ordered List()

10.Creating a Web hyperlink Using the Anchor Element

10.1 Links to external webpages

10.2 Links within the same webpage

11. Adding Images to Web Pages

WEEK 2:

12.The HTML FORM ELEMENT

12.1 One-Line Text Box

12.2 Number Box

12.3 Radio Buttons

12.4 Checkbox

12.5 Drop-Down List(<select> Element)

12.6 Multiple Text Box

13.Audio Element

14.Video Element

CSS

1.Introduction To CSS

2.CSS Declaration, Rules & Syntax

3.Using CSS To Style HTML Documents & Elements

3.1 External Stylesheet

3.2 Internal Stylesheet

3.3 Inline Styling

4.Commonly Used CSS Properties (color, font-size, font-family, background, width, height, font-size, text-decoration)

5.CSS Inheritance & Overriding

6.Web Colors

7.More On font-sizes

WEEK 3:

8.CSS BOX Model

8.1 Margin

8.2 Padding

8.3 Border

8.4 Content

9.CSS Special Effects & pseudoclasses

10.CSS Selectors

10.1 Type, Id, Class Selector

10.2 Combine Selector

10.3 Descendant Selector

10.4 Child Selector

10.5 Adjacent & General Sibling Selector

10.6 First Selectors

11.CSS Opacity Property

12.CSS Display Property (Block & Inline Elements)

13.CSS Text & Box Shadows

14.CSS Position Property

15.CSS Transform Property

16.CSS Layout

16.1 CSS Fixed Layout

16.3 CSS Fluid Layout

17.CSS Animation(keyframes)

WEEK 4:

18.Responsive Web Design Using MediaQueries

18.1 Mobile Design

18.2 Desktop Design

19.CSS Flexbox

20.CSS Grid

21.PRACTICAL CLASSES

21.1 Clone the CertMart Home Page

21.2 Building A Responsive and Fully Functional website with a home page, a contact page, a sign-up page, an about page

21.3 Test Responsiveness and Functionality of Website on All Device Size

WEEK 5:

22.Bootstrap 5(BS5)

22.1 Introduction & Overview

22.2 BS5 Container

22.2.1 Fixed Container

22.2.2 Fluid Container

22.3 BS5 Colors

22.3.1 Text Colors

22.3.2 Background Colors

22.4 BS5 Images

22.5 BS5 Buttons

22.6 BS5 Pagination

22.7 BS5 Cards

22.8 BS5 Collapse

22.9 BS5 Dropdown & Navbar

22.10 BS5 Carousel

22.11 BS5 Forms

22.11.1 Radio Buttons

22.11.2 Checkbox

22.11.3 Select

22.11.4 File Upload

22.11.5 Input Groups

22.11.6 Floating Labels

22.11.7 Form Validation

JavaScript/Introduction to Programming

1.Introduction To JavaScript

2.Lexical Structure of JavaScript

2.1 The Text of JavaScript Program

2.2 Identifiers & Reserved Words

2.3 Comments

2.4 The Use of Semi-colons

3.Variable Declaration

3.1 Introduction & Overview

3.2 Declaration with let

3.3 Declaration with const

3.4 Variable Declaration with var

3.5 Scope of Variables (Local & Global Scope)

WEEK 6:

4.JavaScript Data Types & Values

4.1 Introduction & Overview

4.2 Numbers

4.2.1 Integer Literals

4.2.2 Floating-Point Literals

4.2.3 Arithmetic Operation with Numbers

4.3 Text/Strings as A Data Type

4.3.1 String Literals

4.3.2 Escape Sequence

4.3.3 Use of Backslash

4.3.4 Working with Strings

4.3.5 Template Literals

4.4 Boolean Values

5. Expressions & Operators

5.1 Arithmetic Operators & Performing Mathematical Operations In JS

5.2 Comparison Operators

5.3 Equality & Inequality Operators

5.4 Logical Expressions

5.4.1 Logical AND

5.4.2 Logical OR (||)

5.4.3 Logical Not

5.5 Ternary Operators (? :)

5.6 Null-coalescing Operators(??)

5.7 Spaceship Operator (<=>)

6. Statements

6.1 Introduction & Overview

6.2 Conditional Statements

6.2.1 if

6.2.2 else if

6.2.3 else

6.2.4 Switch

6.3 Loops

6.3.1 While

6.3.2 for

6.3.3 do/while

6.3.4 break

6.3.5 continue

6.3.6 yield

WEEK 7:

7.Functions

- 7.1 Introduction & Overview
- 7.2 Function Declaration
- 7.3 Functions as Values
- 7.4 Function Call/Invoking Functions
- 7.5 The Return Statement
- 7.6 Function Arguments & Parameters
- 7.7 Nested Functions
- 7.8 Rest Parameters
- 7.9 The Arrow Function
- 7.10 Closures

8.Objects

- 8.1 Introduction & Overview
- 8.2 Object Properties
- 8.3 Object Methods
- 8.4 String Object
- 8.5 Math Object
- 8.6 Prototypes
- 8.7 Classes
- 8.8 Polymorphism
- 8.9 Mutability

WEEK 8:

9.Arrays

- 9.1 Introduction & Overview

9.2 Creating Arrays

9.3 Array Length

9.4 Reading & Writing Array Elements

9.5 Multidimensional Arrays

9.6 Array Methods

9.6.1 Array Iterator Methods (for each loop, map(), filter())

9.6.2 concat()

9.6.3 Adding & Deleting Array Elements Methods(slice(), splice(), push(), pop(), shift(), unshift())

9.6.4 entries

9.6.5 Array Searching & Sorting Methods

WEEK 9:

10. Document Object Model (DOM)

10.1 Overview & Introduction

10.2 DOM Tree Structure

10.3 Creating Nodes

10.4 Query Selectors

10.4.1 querySelector()

10.4.2 querySelectorAll()

10.5 Selecting Document Elements with CSS Selectors

10.5.1 getElementById()

10.5.2 getElementsByClassName()

10.5.3 getElementsByTagName()

10.5.6 getElementsByName()

10.6 Attributes

10.7 Replacing Content

10.8 Changing Content

11.Events

11.1 Overview & Introduction

11.2 Events Categories

11.2.1 Device-dependent input events

11.2.2 Device-independent input events

11.2.3 User interface events

11.3 Event Handlers

11.4 Event Propagation

11.5 Event Cancellation

WEEK 10:

12.Bringing It All Together: Building A Fully Responsive, Functional, & Interactive Website with Optimal User Experience. Applying The Knowledge and Skills Acquired From HTML, CSS, & JavaScript.

Project Assessments & Trainee Industry Readiness