| **Course** | **Weeks** | **Days** |  |
| --- | --- | --- | --- |
| **HTML** | 2 | 6 |  |
| **CSS** | 4 | 12 |  |
| **JavaScript** | 6 | 18 |  |

**HTML CORSE OUTLINE**

**DAY 1 Topics**

* **HTML Introduction**
* **HTML Editors**
* **HTML Basic**
* **HTML Elements**
* **HTML Attributes**
* **HTML Headings**
* **HTML Paragraphs**
* **HTML Styles**
* **HTML Formatting**
* **HTML Quotations**
* **HTML Comments**
* **HTML Colors**
* **HTML Links**
* **HTML Images**
* **HTML Favicon**
* **HTML Page Title**

**Exercises**

**• Create a simple HTML file using your preferred editor.**

**• Write a paragraph with inline styles color, font-size.**

**• Create an header for your full name.**

**• Add a blockquote and a q to quote your favorite tech founder.**

**• Use mark, strong, em, u inside text for emphasis.**

**• Comment your entire code section-wise.**

**• Experiment with 3 different color names and 2 rgb() values using inline styles.**

**DAY 2 Topics**

* **HTML Table**
* **HTML Lists**
* **HTML Block & Inline**
* **HTML Div**
* **HTML Classes**
* **HTML Id**
* **HTML Iframes**
* **HTML File Paths**
* **HTML Head**
* **HTML Layout**
* **HTML Responsive**
* **HTML Computercode  
    
   Exercises**

**DAY 3 Topics**

* **HTML Semantics**
* **HTML Style Guide**
* **HTML Entities**
* **HTML Symbols**
* **HTML Emojis**
* **HTML Charsets**
* **HTML URL Encode**

**Exercises**

**Take-Home Assignment (WEEK 1 Wrap-up)**

**“Company Info Page”**

* **Must include image/logo, table for services, 3 types of lists.**
* **Use links, divs, class/id for structure and style.**
* **Embed a video using iframe.**
* **Follow a clear layout using semantic elements.**
* **Add comments explaining each section.**

**DAY 4 Topics**

* **HTML Forms**
* **HTML Forms**
* **HTML Form Attributes**
* **HTML Form Elements**
* **HTML Input Types**
* **HTML Input Attributes**
* **Input Form Attributes**

**Exercises,**

**DAY 5 Topics** **HTML Media**

* **HTML Media**
* **HTML Video**
* **HTML Audio**
* **HTML Plug-ins**

**Exercises**

**DAY 6**

**Exercises**

**Take-Home Assignment (WEEK 2 Wrap-up)**

**“Media Showcase Page”**

* **Must include 2 videos and 2 audios with different configurations.**
* **Simulate plug-in usage with embed or object tag.**
* **Combine media with styled text and layout formatting.**

**🎓 Final HTML Project (After 6th Class)**

**CSS CORSE OUTLINE**

**DAY 1 Topics**

* **CSS Introduction**
* **CSS Syntax**
* **CSS Selectors**
* **CSS How To**
* **CSS Comments**
* **CSS Colors**
* **CSS Backgrounds**
* **CSS Borders**
* **CSS Margins**
* **CSS Padding**

**Exercises**

**DAY 2 Topics**

* **CSS Height/Width**
* **CSS Box Model**
* **CSS Outline**
* **CSS Text**
* **CSS Fonts**
* **CSS Icons**
* **CSS Links**
* **CSS Lists  
    
   Exercises**

**DAY 3 Topics**

* **CSS Tables**
* **CSS Display**
* **CSS Max-width**
* **CSS Position**
* **CSS Z-index**
* **CSS Overflow**
* **CSS Float**
* **CSS Inline-block**
* **CSS Align**
* **CSS Combinators**

**Exercises**

**Take-Home Assignment (WEEK 1 Wrap-up)**

**DAY 4 Topics**

* + **CSS Pseudo-classes**
  + **CSS Pseudo-elements**
  + **CSS Opacity**
  + **CSS Navigation Bar**
  + **CSS Dropdowns**
  + **CSS Image Gallery**
  + **CSS Image Sprites**
  + **CSS Attr Selectors**

**Exercises**

**DAY 5 Topics**

* **CSS Forms**
* **CSS Counters**
* **CSS Website Layout**
* **CSS Units**
* **CSS Specificity**
* **CSS !important**
* **CSS Math Functions**

**Exercises**

**DAY 6 Topics**

* **CSS Advanced**
* **CSS Rounded Corners**
* **CSS Border Images**
* **CSS Backgrounds**
* **CSS Colors**
* **CSS Color Keywords**
* **CSS Gradients**
* **CSS Shadows**
* **CSS Text Effects**
* **CSS Web Fonts**
* **CSS 2D Transforms**
* **CSS 3D Transforms**

**Exercises**

**Take-Home Assignment (WEEK 2 Wrap-up)**

**DAY 7 Topics**

* **CSS Transitions**
* **CSS Animations**
* **CSS Tooltips**
* **CSS Image Styling**
* **CSS Image Centering**
* **CSS Image Filters**
* **CSS Image Shapes**
* **CSS object-fit**
* **CSS object-position**
* **CSS Masking Exercises**

**Exercises**

**DAY 8 Topics**

* + **CSS Buttons**
  + **CSS Pagination**
  + **CSS Multiple Columns**
  + **CSS User Interface**
  + **CSS Variables**
  + **CSS @property**
  + **CSS Box Sizing**
  + **CSS Media Queries**
  + **CSS MQ Examples**

**Exercises**

**DAY 9 Topics**

* + **CSS Flexbox**
  + **Flexbox Intro**
  + **Flex Container**
  + **Flex Items**
  + **Flex Responsive**

**Exercises  
Take-Home Assignment (WEEK 3 Wrap-up)**

**DAY 10 Topics**

* **CSS Grid**
* **Grid Intro**
* **Grid Columns/Rows**
* **Grid Container**
* **Grid Item**

**Exercises**

**DAY 10 Topics**

* **CSS Responsive**
* **RWD Intro**
* **RWD Viewport**
* **RWD Grid View**
* **RWD Media Queries**
* **RWD Images**
* **RWD Videos**
* **RWD Frameworks**
* **RWD TemplatesExercises**

**Exercises**

**DAY 12**

**Exercises**

**Take-Home Assignment (WEEK 4 Wrap-up)**

**🎓 Final CSS Project (After 12th Class)**

**JAVASCRIPT CORSE OUTLINE**

**DAY 1 Topics**

* **JS Introduction**
* **JS Where To**
* **JS Output**
* **JS Statements**
* **JS Syntax**
* **JS Comments**
* **JS Variables**
* **JS Let**
* **JS Const**

**Exercises**

**DAY 2 Topics**

* **JS Operators**
* **JS Arithmetic**
* **JS Assignment**
* **JS Data Types**
* **JS Functions  
   Exercises**

**DAY 3 Topics**

* **JS Objects**
* **JS Object Properties**
* **JS Object Methods**
* **JS Object Display**
* **JS Object Constructors**
* **JS Events**

**Exercises**

**Take-Home Assignment (WEEK 1 Wrap-up)**

**DAY 4 Topics**

* + **JS Strings**
  + **JS String Methods**
  + **JS String Search**
  + **JS String Templates**
  + **JS Numbers**
  + **JS BigInt**

**Exercises**

**DAY 5 Topics**

**JS Number Methods**

**JS Number Properties**

**JS Arrays**

**JS Array Methods**

**JS Array Search**

**JS Array Sort**

**JS Array Iteration**

**JS Array Const**

**Exercises**

**DAY 6 Topics**

* **JS Dates**
* **JS Date Formats**
* **JS Date Get Methods**
* **JS Date Set Methods**
* **JS Math**
* **JS Random**
* **JS Booleans**

**Exercises**

**Take-Home Assignment (WEEK 2 Wrap-up)**

* **DAY 7 Topics**
  + **JS Comparisons**
  + **JS If Else**
  + **JS Switch**
  + **JS Loop For**
  + **JS Loop For In**

**Exercises**

**DAY 8 Topics**

* + **JS Loop For Of**
  + **JS Loop While**
  + **JS Break**
  + **JS Iterables**
  + **JS Sets**

**Exercises**

**DAY 9 Topics**

* **JS Set Methods**
* **JS Maps**
* **JS Map Methods**
* **JS typeof**
* **JS toString()**
* **JS Type Conversion**
* **JS Destructuring**
* **JS Bitwise**

**Exercises  
Take-Home Assignment (WEEK 3 Wrap-up)**

**DAY 10 Topics**

* **JS RegExp**
* **JS Precedence**
* **JS Errors**
* **JS Scope**
* **JS Hoisting**
* **JS Strict Mode**
* **JS this Keyword**

**Exercises**

**DAY 11 Topics**

* **JS Arrow Function**
* **JS Classes**
* **JS Modules**
* **JS JSON**
* **JS Debugging**

**Exercises**

**DAY 12 Topics**

* + **JS Style Guide**
  + **JS Best Practices**
  + **JS Mistakes**
  + **JS Performance**
  + **JS Reserved Words**

**Exercises**

**Take-Home Assignment (WEEK 4 Wrap-up)**

**DAY 13 Topics**

* + **JS Functions**
  + **Function Definitions**
  + **Function Parameters**
  + **Function Invocation**
  + **Function Call**
  + **Function Apply**
  + **Function Bind**
  + **Function Closures**

**Exercises**

**DAY 14 Topics**

* + **JS Classes**
  + **Class Intro**
  + **Class Inheritance**
  + **Class Static**

**Exercises**

**DAY 15 Topics**

* + **JS Async**
  + **JS Callbacks**
  + **JS Asynchronous**
  + **JS Promises**
  + **JS Async/Await**

**Exercises**

**Take-Home Assignment (WEEK 4 Wrap-up)**

**DAY 16 Topics**

* + **JS Web APIs**
  + **Web API Intro**
  + **Web Validation API**
  + **Web History API**
  + **Web Storage API**

**Exercises**

**DAY 17 Topics**

* + **Web Worker API**
  + **Web Fetch API**
  + **Web Geolocation API**

**Exercises**

**DAY 18**

**Exercises**

**Take-Home Assignment (WEEK 6 Wrap-up)**

**🎓 Final JAVASCRIPT Project (After 18th Class)**