

Course HTML CSS

Day	Subject	Topics to be Covered
1	Introduction to HTML	- Explanation of HTML and its function in web development Learning the foundational structure of an HTML document Process of creating and saving an HTML file
2	HTML Text Formatting	- Adding headings, paragraphs, and line breaks in HTML Familiarizing with text formatting tags: bold, italic, underline
3	Hyperlinking in HTML	- Incorporating anchor tags to navigate between web pages
4	Unordered Lists in HTML	- Crafting unordered lists (bulleted lists)
5	Ordered Lists in HTML	- Developing ordered lists (numbered lists) Nesting lists to form hierarchical structures
6	Working with Images in HTML	- Inserting images via the img tag Configuring image attributes: source, alt text, width, height
7	HTML Tables	- Forming tables utilizing table, tr, td tags Adding headers to tables using the th tag
8	Styling HTML Tables with CSS	- Applying CSS to style tables
9	HTML Forms	- Building HTML forms with form, input, and textarea tags
10	Diverse Form Inputs	- Exploring types of form input fields: text, checkbox, radio buttons, select Understanding the concept of form validation
11	Introduction to CSS	- Introduction to CSS and its function in web design Differentiating between inline CSS, internal CSS, and external CSS
12	CSS Selectors	- Understanding selectors and declaration blocks Distinguishing between class selectors, ID selectors, and element selectors
13	CSS Properties	- Manipulating various CSS properties: color, background, font, margin, padding
14	CSS Box Model	- Introduction to the CSS box model: content, padding, border, margin

15	Box Model Properties	- Application of box model properties to HTML elements
16	CSS Layouts	- Introduction to various CSS layouts: fixed, fluid, responsive
17	CSS Positioning	- Building simple layouts using CSS positioning: static, relative, absolute
18	Flexbox in CSS	- Understanding the CSS Flexbox layout model Crafting flexible layouts with flex containers and flex items
19	CSS Grid Layout	- Introduction to CSS Grid layout Forming grid-based layouts using rows and columns
20	CSS Transitions	- Adding transitions to HTML elements: hover effects, smooth transitions
21	CSS Animations	- Creating basic animations using CSS keyframes
22	Responsive Web Design	- Introduction to responsive web design Applying media queries to adapt layouts for varying devices and screen sizes
23-27	Project-based Learning	- Assignment of a small web development project Applying HTML and CSS knowledge to create a website from scratch Providing guidance and support throughout the project Encouraging creativity and experimentation
28-30	Project Completion and Review	- Students' presentation of their projects to the class Review of key concepts and addressing any queries or issues encountered during the project

JAVASCRIPT COURSE

Day	Subject	Topics to be Covered
1	Introduction to JavaScript	- Purpose and role of JavaScript in web development Inline JavaScript, internal JavaScript, and external JavaScript Creating and linking an external JavaScript file
2	JavaScript Variables and Data Types (Part 1)	- Understanding variables and data types in JavaScript Declaring and initializing variables Variable naming conventions and best practices

3	JavaScript Variables and Data Types (Part 2)	- Recap of variables and data types Further exploration of data manipulation and type conversions
4	JavaScript Operators and Expressions (Part 1)	- Arithmetic operators (+, -, *, /, %) Comparison operators (==, ===, !=, !==, >, <, >=, <=)
5	JavaScript Operators and Expressions (Part 2)	- Logical operators (&&,
6	JavaScript Arrays (Part 1)	- Creating and manipulating arrays Accessing array elements
7	JavaScript Arrays (Part 2)	- Array methods (push, pop, shift, unshift, splice, slice) Iterating over arrays using loops (for loop, forEach loop)
8	JavaScript Objects (Part 1)	- Understanding objects and their properties Creating and accessing object properties
9	JavaScript Objects (Part 2)	- Object methods JSON notation (JavaScript Object Notation)
10	JavaScript Functions (Part 1)	- Declaring and invoking functions Function parameters and arguments
11	JavaScript Functions (Part 2)	- Return statements Function expressions and function declarations
12	JavaScript Conditionals (Part 1)	- If statements, else statements, and else if statements
13	JavaScript Conditionals (Part 2)	- Switch statements Ternary operators
14	JavaScript Loops (Part 1)	- For loops
15	JavaScript Loops (Part 2)	- While loops Do-while loops Loop control statements (break, continue)

16	JavaScript DOM Manipulation (Part 1)	- Introduction to the Document Object Model (DOM) Selecting HTML elements using JavaScript
17	JavaScript DOM Manipulation (Part 2)	- Modifying HTML elements (changing text, attributes, styles) Creating and removing HTML elements dynamically
18	JavaScript Events (Part 1)	- Handling events in JavaScript Common events (click, mouseover, keydown, etc.)
19	JavaScript Events (Part 2)	- Event listeners and event handlers
20	JavaScript Form Validation	- Validating user input in forms using JavaScript Checking for required fields Validating email addresses, numbers, and other specific formats
21	JavaScript Error Handling	- Understanding JavaScript errors and exceptions Using try-catch blocks to handle errors
22	JavaScript Date and Time	- Working with dates and times in JavaScript Creating Date objects Formatting dates and times
23	JavaScript Local Storage	- Introduction to the browser's Local Storage API Storing and retrieving data using localStorage Managing and manipulating data in local storage
24-33	Project-based Learning	- Assign a web development project incorporating HTML, CSS, and JavaScript Application of knowledge to create an interactive and dynamic website or web application Guidance, support, and encouragement for creativity and experimentation
34-35	Project Presentation and Review	- Students present their projects to the class Review key concepts Address questions or difficulties encountered during the project