WEB DESIGNING

TEACHER: CERTIFIED TRAINER	DURATION: 16 CLASSES(x4 LEVELS) (1 HOUR PER CLASS)	MODE: ONLINE AND OFFLINE

HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets) are two of the core technologies for building Web pages. HTML is the foundation of all web pages. It defines the structure of a page, while CSS defines its style. HTML and CSS are the beginning of everything you need to know to make your first web page!

COURSE CURRICULUM

Level 1: Introduction to Web Technologies (16 CLASSES)

- Understanding the Internet and Websites:
    - Introduction to the internet, websites, and web browsers.
    - Explanation of web servers, clients, and URLs.
- HTML Basics:
    - Basic understanding of HTML tags, elements, and attributes.
    - Creating simple web pages with headings, paragraphs, lists, and links.
- Project Ideas:

- Create a personal introduction web page.
- Design a simple recipe page without csstables.

- Enhanced HTML Elements:
  - Understanding HTML5 semantic elements.
  - Implementing more complex structures with HTML.
- Basic CSS Introduction:
  - Introduction to basic CSS syntax and properties.
  - Styling HTML elements with colors, fonts, and backgrounds.
- Project Ideas:
  - Design a personal blog page.
  - Create a page about favorite hobbies or interests.

Level 2: Styling and Layouts with CSS

- CSS Layout Techniques:
  - Working with margins, paddings, and borders.
  - Introduction to CSS Flexbox for layout design.
- Responsive Design Basics:
  - Implementing basic responsive design using media queries.
- Project Ideas:
  - Develop a portfolio page showcasing different interests.
  - Create a simple online resume page.

- Advanced HTML and CSS Styling:
  - Building layouts using CSS Grid for better structure.
  - Implementing forms and form validation in HTML.
- Advanced Styling Techniques:
  - CSS animations, transitions, and transformations.
- Project Ideas:
  - Create a photo gallery or image slider.
  - Design a survey form with HTML and CSS.

Level 3: Introduction to JavaScript

- Introduction to JavaScript:
  - Basic JavaScript concepts: variables, data types, functions.

- Manipulating HTML and CSS with JavaScript (DOM manipulation).
- Event Handling and Interactivity:
  - Implementing basic interactivity with user events.
- Project Ideas:
  - Develop a simple interactive quiz.
  - Create an image carousel with JavaScript.

- Conditional Statements and Loops:

  - Understanding if-else statements, for/while loops.
  - Applying conditional logic in web development.
- Asynchronous JavaScript:
  - Introduction to asynchronous programming with callbacks.
- Project Ideas:
  - Build a basic to-do list application.
  - Create a simple calculator with HTML, CSS, and JavaScript.

- JavaScript Functions:

  - Understanding function declarations, scopes, and closures.
  - Writing reusable code with functions.
- Error Handling and Debugging:
  - Basic error handling and debugging techniques.
- Project Ideas:
  - Design an interactive story or game using JavaScript.
  - Create a dynamic weather app fetching data from APIs.

Level 4: Introduction to Databases

- Understanding Databases:
  - Introduction to databases, SQL, and NoSQL.
  - Basic concepts of database management systems.
- Introduction to MongoDB:
  - Overview of MongoDB and its usage in web applications.
- Project Ideas:
  - Design a blog with MongoDB for storage of articles.
  - Create a simple contact form linked to a database.

- SQL Basics:
  - Understanding SQL syntax and basic queries.
  - Introduction to relational databases and tables.
- MongoDB CRUD Operations:

- Performing Create, Read, Update, Delete operations in MongoDB.
- Project Ideas:
    - Develop a user registration and login system.
    - Create an e-commerce product catalog with MongoDB.