



TECHHUB SOLUTIONS

...be step ahead in your field

CSS Course

Module 1: Introduction to CSS

- What is CSS?
 - Importance and Role of CSS in Web Design
 - Difference between Inline, Internal, and External CSS
 - CSS Syntax and Structure
 - How to Link CSS to HTML
 - Understanding Selectors, Properties, and Values
 - Comments in CSS
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Module 2: CSS Selectors and Colors

- Basic Selectors (Element, Class, ID)
 - Grouping and Universal Selectors
 - Descendant, Child, and Sibling Selectors
 - Attribute Selectors
 - Pseudo-classes and Pseudo-elements
 - Color Models (RGB, HEX, HSL)
 - Applying Colors to Text, Backgrounds, and Borders
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Module 3: CSS Text and Fonts

- Text Formatting (font-size, font-weight, font-style, text-align)
 - Text Decoration and Transformations
 - Line Height, Letter Spacing, and Word Spacing
 - Web Safe Fonts and Google Fonts
 - Font Shorthand Property
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Module 4: CSS Box Model

- Understanding the Box Model (Content, Padding, Border, Margin)
- Box-sizing Property

- Border Styles and Radius
 - Outline vs Border
 - Element Display Types (block, inline, inline-block, none)
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Module 5: CSS Backgrounds

- Background Color, Image, Repeat, Position, and Size
 - Background Attachment (scroll, fixed)
 - Gradient Backgrounds (Linear, Radial, Conic)
 - Multiple Backgrounds
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Module 6: CSS Layout and Positioning

- Position Property (static, relative, absolute, fixed, sticky)
 - Z-index and Stacking Order
 - Float and Clear
 - Display Property
 - Overflow Property
 - CSS Units (px, %, em, rem, vh, vw)
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Module 7: CSS Flexbox

- Introduction to Flexbox
 - Flex Container and Flex Items
 - Main Axis vs Cross Axis
 - Justify-content, Align-items, Align-content
 - Flex-wrap and Flex-direction
 - Gap Property
 - Flexbox Layout Examples
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Module 8: CSS Grid Layout

- Introduction to Grid
- Grid Container and Grid Items
- Defining Rows and Columns
- Grid Template Areas
- Gap and Alignment in Grid
- Combining Flexbox and Grid

Module 9: CSS Transitions and Animations

- Introduction to CSS Transitions
- Transition Properties (duration, delay, timing-function)
- CSS Animations and @keyframes
- Animation Iteration and Direction
- Hover and Active Effects
- Smooth UI Interactions

Module 10: CSS Transformations

- 2D Transforms (translate, rotate, scale, skew)
- 3D Transforms (rotateX, rotateY, rotateZ)
- Perspective and Transform-origin
- Combining Transforms with Transitions

Module 11: CSS Responsive Design

- Introduction to Responsive Web Design
- Media Queries and Breakpoints
- Relative Units for Layouts (% , em, rem, vh, vw)
- Responsive Typography
- Mobile-first Design Approach
- Using Flexbox and Grid for Responsiveness

Module 12: Advanced CSS Concepts

- CSS Variables (Custom Properties)
- CSS Functions (calc(), var(), clamp())
- Pseudo-elements in Depth (:before, :after)
- CSS Filters and Blend Modes
- Scroll Behavior and Sticky Elements
- CSS Frameworks (Intro to Bootstrap / Tailwind)

Module 13: Project Work

Project Ideas:

1. Personal Portfolio Website
 2. Responsive Landing Page
 3. Product Card or Pricing Table
 4. CSS Animation Effects Page
 5. Flexbox & Grid Layout Dashboard
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Module 14: Final Assessment & Certification

- Practical Test on Layout and Design
- Mini Project Submission
- Viva or Presentation on CSS Project