



Beginner: Introduction to Web Development

Description:

This course introduces the fundamentals of web development, focusing on the core technologies that power the web: **HTML**, **CSS**, and **JavaScript**. Students will learn to structure webpages using HTML, style them with CSS for responsiveness and visual appeal, and add interactivity using JavaScript. Additionally, the course includes an overview of developer tools for debugging and optimizing websites, as well as best practices for web design and development.

Learning Outcomes:

By the end of this course, students will:

- Understand the basic building blocks of the web: HTML, CSS, and JavaScript.
- Create static, responsive websites with structured and semantic HTML.
- Design visually appealing webpages using CSS, including layouts, colors, and typography.
- Add interactivity to websites using fundamental JavaScript concepts.
- Utilize browser developer tools to inspect, debug, and enhance web projects.
- Build and deploy a fully functional, static website.

Course Duration:

- **Total Duration:** 6 Weeks
 - **Sessions per Week:** 2 sessions
 - **Session Duration:** 1.5 hours each
 - **Total Contact Hours:** 18 hours (plus optional practice/homework time)
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6-Week Course Plan:

Week 1: Introduction to Web Development

Topics Covered:

- How the web works
- Overview of front-end and back-end
- Web browsers, servers, and developer tools
- Setting up a development environment

Deliverables:

- Development tools installed
 - Folder structure created for first project
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Week 2: HTML Fundamentals

Topics Covered:

- HTML elements, tags, and attributes
- Semantic structure
- Links, images, tables, and forms

Deliverables:

- Multi-page website layout using HTML
 - Semantic structure review
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Week 3: Styling with CSS**Topics Covered:**

- CSS syntax and application
- Selectors, colors, fonts, spacing
- Box model, display types, Flexbox

Deliverables:

- Styled multi-page website using internal and external CSS
 - Responsive layout using Flexbox
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Week 4: Advanced CSS & Layouts**Topics Covered:**

- CSS Grid
- Media queries for responsiveness
- Transitions and simple animations

Deliverables:

- Responsive portfolio layout using Grid and Flexbox
 - Applied hover/animation effects
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Week 5: JavaScript Basics

Topics Covered:

- JavaScript syntax and data types
- Functions and event listeners
- DOM manipulation
- Simple form validation

Deliverables:

- JavaScript-enabled interactive webpage
 - Basic form with validation
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Week 6: Final Project & Deployment

Topics Covered:

- Project planning and structure
- Final project development
- Debugging tools and performance tips
- Deployment using GitHub Pages or Netlify

Deliverables:

- Complete multi-page responsive website with interactivity
- Website deployed live
- Final presentation and feedback session

Final Deliverables:

- A fully functional, responsive static website
 - Hosted live using GitHub Pages or Netlify
 - Certificate of Completion from **CodeHills**
 - Basic portfolio to showcase work
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Course Fees (Pakistan):

- **Standard Fee:** PKR 10,000