

# Web Development Course

6 Months

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Detailed breakdown of the 6-month web development course, starting on Monday, July 1, 2024, with classes every Monday, Wednesday, and Friday. Each month includes project classes at the end.

### Month 1: HTML

- **Week 1 (July 1 - 5):**
  - Monday: Introduction to HTML
  - Wednesday: Basic HTML structure
  - Friday: Common HTML elements (headings, paragraphs, lists, links)
- **Week 2 (July 8 - 12):**
  - Monday: HTML attributes
  - Wednesday: Images and media elements
  - Friday: Forms and inputs
- **Week 3 (July 15 - 19):**
  - Monday: Tables and data
  - Wednesday: Semantic HTML
  - Friday: HTML5 new features
- **Week 4 (July 22 - 26):**
  - Monday: Review and advanced HTML topics
  - Wednesday: Accessibility in HTML
  - Friday: **Project Class:** Build a simple HTML website

### Month 2: CSS

- **Week 1 (July 29 - August 2):**
  - Monday: Introduction to CSS
  - Wednesday: CSS syntax and selectors

- Friday: Colors and backgrounds
- **Week 2 (August 5 - 9):**
  - Monday: Box model
  - Wednesday: CSS layout: Flexbox
  - Friday: Responsive design
- **Week 3 (August 12 - 16):**
  - Monday: CSS Grid
  - Wednesday: Advanced CSS techniques
  - Friday: CSS animations and transitions
- **Week 4 (August 19 - 23):**
  - Monday: Review and practical CSS
  - Wednesday: CSS preprocessors (Sass, Less)
  - Friday: **Project Class:** Style the HTML website with CSS

### Month 3: JavaScript

- **Week 1 (August 26 - 30):**
  - Monday: Introduction to JavaScript
  - Wednesday: JavaScript syntax and operators
  - Friday: Control structures
- **Week 2 (September 2 - 6):**
  - Monday: Functions and scope
  - Wednesday: Arrays and objects
  - Friday: DOM manipulation
- **Week 3 (September 9 - 13):**
  - Monday: Event handling
  - Wednesday: Asynchronous JavaScript: Callbacks, Promises, Async/Await
  - Friday: Error handling and debugging
- **Week 4 (September 16 - 20):**
  - Monday: JavaScript libraries (jQuery)
  - Wednesday: ES6+ features
  - Friday: **Project Class:** Add interactivity to the website using JavaScript

### Month 4: PHP

- **Week 1 (September 23 - 27):**
  - Monday: Introduction to PHP
  - Wednesday: PHP syntax and variables
  - Friday: Control structures in PHP
- **Week 2 (September 30 - October 4):**
  - Monday: Functions in PHP
  - Wednesday: Working with forms
  - Friday: File handling
- **Week 3 (October 7 - 11):**
  - Monday: Sessions and cookies
  - Wednesday: Error handling

- Friday: Security in PHP
- **Week 4 (October 14 - 18):**
  - Monday: Advanced PHP topics
  - Wednesday: Review and Q&A
  - Friday: **Project Class:** Basic PHP web application

## Month 5: MySQL Database and PHP Integration

- **Week 1 (October 21 - 25):**
  - Monday: Introduction to databases
  - Wednesday: MySQL basics: Creating databases and tables
  - Friday: CRUD operations
- **Week 2 (October 28 - November 1):**
  - Monday: SQL joins and relationships
  - Wednesday: Integrating MySQL with PHP
  - Friday: Prepared statements
- **Week 3 (November 4 - 8):**
  - Monday: Advanced MySQL queries
  - Wednesday: Database design and normalization
  - Friday: **Project Class:** Develop a PHP application with a MySQL backend

## Month 6: Laravel Framework

- **Week 1 (November 11 - 15):**
  - Monday: Introduction to Laravel
  - Wednesday: Laravel installation and setup
  - Friday: MVC architecture
- **Week 2 (November 18 - 22):**
  - Monday: Routing and Controllers
  - Wednesday: Blade templating
  - Friday: Database migrations and Eloquent ORM
- **Week 3 (November 25 - 29):**
  - Monday: Form handling and validation
  - Wednesday: Middleware and Security
  - Friday: Advanced features in Laravel
- **Week 4 (December 2 - 6):**
  - Monday: Review and practical Laravel
  - Wednesday: **Project Class:** Develop a Laravel web application
  - Friday: **Project Class:** Develop a Laravel web application

## Final Month: Laravel Web Project

- **Week 1 (December 9 - 13):**
  - Monday: Planning and designing the final project
  - Wednesday: Building the project: Part 1
  - Friday: Building the project: Part 2

- **Week 2 (December 16 - 20):**
  - Monday: Building the project: Part 3
  - Wednesday: Final touches and deployment
  - Friday: **Project Presentation and Review**