



# TECHSCRIPTION

## WEB DEVELOPMENT COURSE

*Syllabus*



---

## Introduction

Welcome to the Basic Web Development Course! Over the next four months, you'll explore the foundations of web development, starting with **HTML, CSS, and JavaScript**. Discover how to structure content, style pages, and add interactivity, progressing to libraries like **jQuery and Bootstrap**. Gain insights into backend development, and databases like **PHP and MySQL**. As you hone your skills, envision the vast scope of web development, from creating responsive websites to building dynamic applications. Get ready to unleash your creativity and embark on a journey that opens doors to a world of possibilities in the ever-evolving realm of web development.

“

“Any fool can write code that a computer can understand. Good programmers write code that humans can understand.”

— Martin Fowler

”

---

---

## COURSE STRUCTURE AND SYLLABUS

### Week 1-2: Introduction to Web Development

- Understanding the basics of the Internet and the World Wide Web
- Introduction to HTML: Document structure, elements, and attributes
- Basic webpage creation using HTML

### Week 3-4: Styling with CSS

- CSS fundamentals: Selectors, properties, and values
- Building responsive layouts with Flexbox and Grid
- Introduction to media queries for responsive design

### Week 5-6: Dynamic Web Pages with JavaScript

- Basics of JavaScript: Variables, data types, operators
- DOM manipulation and event handling
- Introduction to jQuery for simplified DOM manipulation

### Week 7-8: Responsive Design with Bootstrap

- Utilizing Bootstrap framework for responsive and mobile-first design
- Grid system, navigation bars, and components in Bootstrap

### Week 9-10: Server-Side Scripting with PHP

- Introduction to PHP programming language
  - Handling forms, sessions, and cookies in PHP
  - Server-side validation and processing
  - Basics of version control **GIT and Github**
-

---

**Week 11-12: MySQL Database Integration**

- Basics of MySQL: Database creation, queries, and CRUD operations
- Connecting PHP with MySQL for dynamic content

**Week 13-14: Building Dynamic Websites**

- Integrating JavaScript, PHP, and MySQL for interactive and data-driven web pages
- Handling user authentication and authorization

**Week 15-16: Content Management with WordPress**

- Introduction to WordPress: Installation and setup
- Creating and customizing themes
- Managing content and plugins in WordPress

**Week 17-18: Final Project - E-commerce Website**

- Integrating HTML, CSS, JavaScript, jQuery, Bootstrap, PHP, MySQL, and WordPress
- Building a fully functional e-commerce website
- Project presentation and peer review

**Assessment:**

- Weekly quizzes
  - Midterm project (building a static website)
  - Final project (building a dynamic e-commerce website)
-