

Day 1-2: Introduction to Web Development

Module 1: Course Introduction

Lecture 1: What is Web Development?

Lecture 2: Front-end vs. Back-end Development

Lecture 3: Setting Up a Development Environment

Day 3-5: HTML Fundamentals

Module 2: Introduction to HTML

Lecture 4: Structure of an HTML Document

Lecture 5: HTML Elements and Tags

Lecture 6: Headings, Paragraphs, and Lists

Week 2: Cascading Style Sheets (CSS)

Day 6-7: Introduction to CSS

Module 3: Introduction to CSS

Lecture 7: What is CSS?

Lecture 8: CSS Syntax and Selectors

Lecture 9: Inline, Internal, and External CSS

Day 8-10: CSS Properties and Layout

Module 4: CSS Properties

Lecture 10: Colors and Backgrounds

Lecture 11: Text Styling

Lecture 12: Box Model (Margins, Borders, Padding)

Module 5: Layout and Positioning

Lecture 13: CSS Box Model

Lecture 14: Positioning (relative, absolute, float)

Week 3: JavaScript Fundamentals

Day 11-13: Introduction to JavaScript

Module 6: Introduction to JavaScript

Lecture 15: What is JavaScript?

Lecture 16: Writing JavaScript in HTML

Lecture 17: Variables, Data Types, and Operators

Day 14-16: Control Flow and Functions

Module 7: Control Flow

Lecture 18: Conditional Statements (if, else if, switch)

Lecture 19: Loops (for, while)

Module 8: Functions and Scope

Lecture 20: Functions and Function Declarations

Lecture 21: Scope (Global vs. Local)

Week 4: Advanced JavaScript

Day 17-19: Objects and Events

Module 9: JavaScript Objects

Lecture 22: Object Creation and Properties

Lecture 23: Object Methods

Module 10: Handling Events

Lecture 24: Event Handling in HTML and JavaScript

Lecture 25: Event Listeners

Day 20-22: DOM Manipulation and Form Validation

Module 11: Document Object Model (DOM)

Lecture 26: Accessing and Manipulating DOM Elements

Lecture 27: DOM Events and Event Bubbling

Module 12: Form Validation with JavaScript

Lecture 28: Validating Form Input

Lecture 29: Displaying Validation Messages

Week 5: Project and JavaScript Libraries

Day 23-26: Building a Simple Web Application

Module 13: Final Project

Students work on building a simple interactive web application using HTML, CSS, and JavaScript.

Instructor provides guidance and assistance as needed.

Presentation and discussion of projects.

Day 27-28: Introduction to JavaScript Libraries (e.g., jQuery)

Module 14: Introduction to JavaScript Libraries

Lecture 30: Overview of JavaScript Libraries

Lecture 31: Using jQuery for DOM Manipulation

Week 6: Responsive Web Design and Conclusion

Day 29-31: Responsive Web Design with CSS (CSS Frameworks)

Module 15: Responsive Web Design

Lecture 32: Media Queries and Responsive CSS

Lecture 33: Introduction to CSS Frameworks (e.g., Bootstrap)

Conclusion and Course Review

Module 16: Course Conclusion

Lecture 34: Recap of Key Concepts

Lecture 35: Next Steps in Web Development

Lecture 36: Q&A Session