

# Front-End Web Designing Course Outline (30 Lectures × 45 min)

## Basics of Web Design (Lectures 1-3)

- Lecture 1: Introduction to Web Development and Front-End Role
- Lecture 2: HTML5 Basics: Structure, Semantic Tags
- Lecture 3: CSS3 Basics: Selectors, Properties, Box Model

## Advanced HTML & CSS (Lectures 4-8)

- Lecture 4: Forms, Input Types, Validation
- Lecture 5: Advanced CSS: Flexbox, Grid Layouts
- Lecture 6: CSS Animations, Transitions, Responsive Media Queries
- Lecture 7: CSS Preprocessors Introduction (SASS/LESS)
- Lecture 8: CSS Frameworks: Bootstrap, Tailwind CSS Basics

## JavaScript Fundamentals (Lectures 9-13)

- Lecture 9: JavaScript Syntax, Variables, Functions
- Lecture 10: DOM Manipulation, Events
- Lecture 11: ES6+ features: let/const, arrow functions, template literals
- Lecture 12: JavaScript Objects, Arrays, and JSON
- Lecture 13: Fetch API and Basic HTTP Requests

## Advanced JavaScript & Framework Basics (Lectures 14-18)

- Lecture 14: JavaScript Asynchronous Programming (Promises, async/await)
- Lecture 15: JavaScript Modules and Tooling (npm, Webpack basics)
- Lecture 16: Introduction to React.js / Vue.js / Angular (one framework focus)
- Lecture 17: Component-based Architecture and State Management
- Lecture 18: Routing and API Integration in SPA

## UI/UX Design Principles (Lectures 19-21)

- Lecture 19: User Interface Design Fundamentals, Typography, Colors
- Lecture 20: Accessibility & SEO-friendly Design
- Lecture 21: Wireframing and Prototyping Tools Overview (Figma, Adobe XD)

## Responsive & Mobile-First Design (Lectures 22-23)

- Lecture 22: Media Queries, Responsive Images & Layouts
- Lecture 23: Mobile-First Design Practices

## Advanced Frontend Topics (Lectures 24-27)

- Lecture 24: Progressive Web Apps (PWA) Basics
- Lecture 25: Web Performance Optimization Techniques
- Lecture 26: Introduction to Web Components & Custom Elements
- Lecture 27: State Management Libraries (Redux, Vuex basics)

## Projects & Deployment (Lectures 28-30)

- Lecture 28: Building a Responsive Portfolio Website Project
- Lecture 29: Building an Interactive Dashboard Project
- Lecture 30: Web Hosting, Deployment, and Version Control Basics

Drushiti Udayan