

Module 1: Introduction to Web Design

- What is web design?
- Difference between web design and web development
- Structure of a website (frontend vs backend)
- Tools and software for web design (VS Code, Sublime, Figma, Photoshop)

Module 2: HTML – Structure of Web Pages

- Basics of HTML tags and attributes
- Headings, paragraphs, lists, links
- Images, tables, forms
- Semantic HTML5 elements (header, footer, article, section)
- Best practices for clean markup

Module 3: CSS – Styling Web Pages

- Inline, internal, and external CSS
- Selectors, properties, and values
- Colors, backgrounds, borders, text formatting
- Box model (margin, padding, border)
- Flexbox and Grid layout systems
- Responsive design with media queries

Module 4: JavaScript Basics

- Introduction to JavaScript for interactivity
- Variables, operators, functions, events
- DOM manipulation (changing content, styles, elements)
- Form validation with JavaScript
- Simple animations and effects

Module 5: Web Graphics & Multimedia

- Image editing basics (Photoshop/Canva)
- Optimizing images for the web
- Embedding audio and video
- Using icons and SVG graphics

Module 6: Frameworks & Libraries

- Introduction to Bootstrap (responsive design)
- Using jQuery for simplified scripting
- Overview of modern frameworks (React basics – optional)

Module 7: Usability & Accessibility

- Principles of user-centered design
- Navigation and layout best practices
- Accessibility guidelines (WCAG basics)
- Mobile-first design approach

Module 8: Hosting & Publishing

- Domain names and hosting basics
- FTP and file management
- Publishing websites online
- Introduction to CMS (WordPress basics)

Module 9: Practical Projects

- Build a personal portfolio website
- Create a business landing page with forms
- Design a blog layout with navigation and multimedia
- Final project: Complete multi-page responsive website

Learning Outcomes

By the end of this course, students will:

- Understand the fundamentals of web design and development
- Create structured web pages using HTML
- Style and format websites with CSS
- Add interactivity with JavaScript
- Design responsive, mobile-friendly websites with Bootstrap
- Publish and manage websites online