



Web Development Curriculum

Build real websites from scratch with HTML, CSS, JavaScript, and responsive design fundamentals.

Duration: 10 weeks

Format: Online classes with coding practice

Level: Beginner Friendly

Program Overview

A modern front-end focused curriculum covering web foundations, responsive layout, JavaScript, React, developer workflow, and capstone delivery.

What Students Will Achieve

- Build responsive front-end interfaces with HTML, CSS, and JavaScript
- Use Git and GitHub in a professional development workflow
- Create component-based interfaces with React
- Ship a portfolio-ready front-end project

Tools and Platforms

HTML | CSS | JavaScript | VS Code | GitHub

Curriculum Modules

Module 01: Front-End Foundations and the Web

Understand how the web works and build a strong base for browser-based development.

- The role of front-end developers and how modern web apps work
- Semantic HTML, accessibility basics, and page structure
- Core developer tooling and environment setup

Practical Output: A semantic multi-section landing page



Module 02: CSS, Layout, and Responsive Interfaces

Create polished layouts that adapt well across desktop and mobile screens.

- CSS fundamentals, spacing systems, and visual hierarchy
- Flexbox, Grid, responsive breakpoints, and utility workflows
- Component styling and front-end UI patterns

Practical Output A responsive multi-page interface build

Module 03: JavaScript Programming and DOM Interactions

Add logic and behaviour to web interfaces using core JavaScript patterns.

- Variables, functions, arrays, objects, and control flow
- DOM selection, events, form handling, and state basics
- Debugging and writing maintainable front-end logic

Practical Output An interactive JavaScript feature set

Module 04: Developer Workflow, APIs, and Version Control

Adopt practical development habits used in collaborative front-end teams.

- Git, GitHub, branches, commits, and collaboration flow
- Working with APIs, JSON, fetch, and async UI states
- Project structure, code quality, and handoff habits

Practical Output A version-controlled API-driven front-end mini project

Module 05: React and Component-Based Development

Use React to build interfaces that are reusable, scalable, and easier to maintain.

- JSX, components, props, state, and composition
- Hooks, conditional rendering, forms, and routing concepts
- Building reusable UI blocks and page sections

Practical Output A React application with reusable components

Module 06: Capstone Build, Deployment, and Career Readiness

Package your skills into a professional build that can be shown to clients or employers.

- Project planning, implementation, testing, and polish
- Deployment workflow and simple optimisation practices
- Portfolio preparation and interview talking points

Practical Output A deployed front-end capstone project

Capstone Project

Plan, build, and deploy a responsive front-end application that combines layout, interactivity, reusable components, and real project structure.



Icrust Digital Academy

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Student Support

- Mentorship and guided support throughout the learning journey
- Certificate of completion after successful participation
- Career guidance to help position students for opportunities