**Weeks 1–5: HTML and CSS Basics**

**Week 1: Introduction to Frontend Development**

* Overview of frontend vs backend
* Tools setup: VS Code, browser dev tools
* Basic HTML structure and common tags

**Week 2: Semantic HTML and Accessibility**

* Importance of semantic tags (<header>, <footer>, <main>)
* Forms: structure, attributes, and validation
* Accessibility basics (labels, ARIA roles)

**Week 3: CSS Basics**

* CSS syntax: selectors, properties, and values
* Colors, typography, and box model basics
* Hands-on: Creating a simple styled webpage

**Week 4: CSS Layouts**

* Flexbox: basics and use cases
* CSS Grid: introduction and creating simple grids
* Hands-on: Building a responsive card layout

**Week 5: Responsive Design**

* Media queries and breakpoints
* Mobile-first design principles
* Responsive testing tools and techniques

**Weeks 6–10: JavaScript Basics and DOM Manipulation**

**Week 6: Introduction to JavaScript**

* JavaScript syntax: variables, data types, and operators
* Conditional statements and loops (if/else, for, while)
* Hands-on: Writing basic scripts

**Week 7: Functions and Events**

* Functions: declarations and usage
* Event listeners and basic interactions
* Hands-on: Button click interactions

**Week 8: DOM Manipulation**

* Selecting and modifying DOM elements
* Adding and removing elements dynamically
* Hands-on: Creating a dynamic to-do list

**Week 9: JavaScript Objects and Arrays**

* Objects and arrays: syntax and usage
* Iterating through arrays with loops
* Hands-on: Building a simple product list

**Week 10: JavaScript Project**

* Build a mini project combining HTML, CSS, and JavaScript (e.g., a quiz or a weather lookup tool using mock data)

**Weeks 11–15: Advanced Topics and Capstone Project**

**Week 11: CSS Advanced Topics**

* Transitions, animations, and transforms
* CSS pseudo-classes and pseudo-elements
* Hands-on: Animating a button hover effect

**Week 12: Debugging and Best Practices**

* Debugging techniques using browser tools
* Writing clean, maintainable HTML, CSS, and JS
* Hands-on: Debug and fix errors in provided code

**Week 13: Version Control with Git**

* Basics of Git and GitHub
* Creating repositories and committing changes
* Hands-on: Students track changes for their projects

**Week 14: Fetching Data with JavaScript**

* Introduction to HTTP requests and APIs
* Fetch API and working with JSON
* Hands-on: Fetch and display data from a public API

**Week 15: Final Capstone Project and Presentation**

* Build a fully functional project combining all learned concepts
* Examples: Portfolio site, interactive quiz, or simple e-commerce page
* Presentations, feedback, and future learning resources