

# 5-Month Front-End Development Bootcamp Curriculum

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## Schedule

- Total Duration: 5 Months (20 Weeks)
- Live Classes: Monday to Wednesday (7–9 PM WAT)
- Project Weeks: Interspersed throughout for deeper builds

## Curriculum Structure

### Month 1: The Foundations

#### Week 1

- Getting Started with HTML & CSS
- Tools setup, intro to web dev
- Semantic HTML and basic CSS

#### Week 2

- CSS Layouts
- Box model, Flexbox, Grid
- Responsive units, best practices

#### Week 3

- Responsive & Accessible Design
- Media queries, mobile-first
- Accessibility principles and tags

#### Week 4

- Tailwind CSS
- Utility classes
- Layouts, components, customization
- Dark mode, animations

## Month 2: Core JavaScript

### Week 5

- JavaScript Basics
- Variables, data types, operators
- Functions, conditionals

### Week 6

- Arrays, Objects & Loops
- Array methods, objects
- Loops (for, while, forEach, map, reduce)

### Week 7

- DOM & Events
- DOM manipulation
- Event listeners and form handling

### Week 8

- ES6 and Execution Flow
- let/const, arrow functions, destructuring
- Scope, hoisting, closures, call stack

## Month 3: Deeper JavaScript + Projects

### Week 9

- Browser APIs + Storage
- Web storage (localStorage, sessionStorage)
- The Window and Document objects

### Week 10

- Asynchronous JS
- Callbacks, Promises, Fetch API
- Try/catch, error handling

### **Week 11**

- Version Control & GitHub
- Git commands, branching, pull requests
- Hosting projects on GitHub

### **Week 12**

- Project Week
- Build a landing page or dashboard using HTML, Tailwind & Vanilla JS
- Use Git and GitHub for version control

## **Month 4: React Development**

### **Week 13**

- React Basics
- Introduction to React, JSX
- Components and Props

### **Week 14**

- React State & Events
- useState, event handling
- Conditional rendering, lists and keys

### **Week 15**

- React Forms and Effects
- Controlled components
- useEffect and side effects

### **Week 16**

- Routing and Modular Design
- React Router
- Component folder structure
- Props drilling and lifting state

## Month 5: Projects + Next.js + Capstone

### Week 17

- Next.js Introduction
- Pages and routing
- Static generation (SSG) and SSR
- API routes basics

### Week 18

- APIs and Deployment
- Fetching data in React/Next.js
- Deploy to Vercel, Netlify

### Week 19

- Capstone Build Week
- Final project: React or Next.js App
- GitHub and hosted live

### Week 20

- Presentation & Career Prep
- Presentations and feedback
- Portfolio prep
- LinkedIn/GitHub optimization
- Interview readiness

Note that the implementation of the curriculum will be adaptive. This means that; we will be faster or slower depending on the assimilation of students.