

FAIZ COMPUTER INSTITUTE

Topic Subtopics

1. HTML (HyperText Markup Language) - Structure of an HTML document

- Basic tags and attributes
- Images, links, and multimedia
- Lists, tables, and forms
- Semantic HTML (<header>, <footer>, <section>, etc.)
- HTML5 features: graphics (<canvas>, <svg>), local storage, and advanced form elements
- Accessibility and SEO-friendly HTML

2. CSS (Cascading Style Sheets) CSS Basic

- Syntax and selectors
- Inline, internal, and external stylesheets
- Colors, fonts, and text styling
- Box Model and Layout
- Margins, borders, padding
- Display, position, and float
- Flexbox
- Grid layout

3. Advanced CSS

- Media queries and responsive design
- Transitions and animations
- Pseudo-classes and pseudo-elements
- CSS variables and custom properties

4. CSS Frameworks

- Introduction to Bootstrap or Tailwind CSS

5. JavaScript (Programming for the Web) JavaScript Basics

- Variables, data types, and operators
- Functions and scope
- Events and event listeners
- DOM manipulation

6. Intermediate JavaScript

- Arrays and objects
- Loops and conditional statements
- ES6 features: let, const, arrow functions, template literals, destructuring

7. Advanced JavaScript

- Fetch API and AJAX for asynchronous programming
- Promises and async/await
- Error handling

8. Browser APIs

- Local storage, session storage

9. Modern Frameworks

- Introduction to React.js (or Vue.js/Angular based on preference)
- Setting up a project with Create React App or Vite
- Component-based architecture
- Props and state management

State Management (Optional)

- Redux or Context API in React

10. Deployment and Hosting - Free hosting: GitHub Pages, Netlify, Vercel

- Basics of domain and hosting setup
- Deploying React/modern frameworks

11. Testing and Debugging - Debugging with browser developer tools

- Writing test cases using Jest or similar libraries

12. Final Projects and Portfolio Project Ideas:

- Personal portfolio
- Responsive landing page
- Blog with dynamic content (API integration)
- E-commerce product page
- Weather app or to-do app (API-based)