

Week Plan	Course Name	Lesson Plan	Time in Days	Website to follow	Mentor Name
Week - 1	HTML	1. Introduction to HTML: - Overview of HTML - Anatomy of an HTML document - Setting up an HTML project	1	HTML Tutorial	Akankhya
		2. HTML Tags: - Common HTML tags - Tag attributes - Nesting tags			
		3. HTML Elements: - Text elements - Image elements - Video elements - Audio elements	1		
		4. HTML Styling: - Using CSS - Styling text - Adding backgrounds	1		
		5. HTML Layout: - Creating a basic layout - Working with tables - Positioning elements	1		
		6. Final Project: - Putting together a basic website - Creating a navigation menu - Adding content and styling	1		
Week - 2	CSS	1. Introduction to CSS: - Overview of CSS - Benefits of using CSS - Syntax and basic selectors	1	CSS Tutorial	Akankhya
		2. Advanced CSS Selectors: - Attribute selectors - Pseudo classes and pseudo elements - Combinators			
		3. Box Model & Layout: - Margin and padding - Display and position - Floats and clears - Flexbox	1		
		4. Styling Text and Fonts: - Fonts and web safe fonts - Web fonts - Text properties			
		5. Responsive Design: - Media queries - Mobile-first design	1		
		6. CSS Animations & Transitions: - CSS animation basics - Transitions	1		

		7. CSS Preprocessors: - Overview of preprocessors - Working with SASS 8. Tips & Best Practices: - Debugging tools - Optimization tips - Browser compatibility	1		
Week - 3, 4	Javascript	1. Introduction to JavaScript: - Overview of the language - Syntax and basic concepts - Data types and variables	1	JavaScript Tutorial	Debapriya
		2. Functions and Control Structures: - Defining and calling functions - Logic and control structures - Looping	1		
		3. Working with the Document Object Model (DOM): - Overview of the DOM - Working with elements, attributes and styles - Manipulating the DOM - Event handling	1		
		4. Working with AJAX: - Overview of AJAX - Using the XMLHttpRequest object - Making requests and receiving data - Using JSON	1		
		5. Advanced JavaScript: - Object-oriented programming - Error handling - Regular expressions - Debugging	1		
		6. JavaScript Libraries, Functions & ES6 features: - Overview of popular libraries - Using jQuery - Functions like Map, Reduce, Filter, Every, Some etc - ES6 features	2		
		7. Final Project: - Developing a web application with JavaScript	3		
		1. Introduction to Bootstrap: - Overview of Bootstrap and its main components - Overview of Bootstrap Grid System - Understanding of Bootstrap Classes - Introduction to Bootstrap components 2. Bootstrap CSS: - Introduction to Bootstrap CSS - Understanding of Bootstrap typography - Overview of Bootstrap utilities - Styling tables and forms with Bootstrap	1		

Week - 5	Bootstrap	3. Bootstrap Components: - Overview of Bootstrap components - Exploring Bootstrap buttons - Exploring Bootstrap images - Exploring Bootstrap navigation - Exploring Bootstrap modals	1	Bootstrap 5 Tutorial	Akankhya
		4. Bootstrap JavaScript: - Introduction to Bootstrap JavaScript - Exploring Bootstrap plugins - Working with Bootstrap carousels - Working with Bootstrap tooltips - Working with Bootstrap collapse	1		
		5. Advanced Bootstrap: - Working with Bootstrap custom components - Working with Bootstrap SASS - Exploring Bootstrap themes and templates	1		
		6. Final Project: - Developing a web application with Bootstrap	1		
Week - 6, 7	React js	1. Introduction: a. Overview of React JS and its features b. Different types of components c. Benefits of using React JS	1	React Tutorial	Debapriya
		2. Setting up your Environment: a. Installation of necessary tools b. Configuring development environment c. React + Typescript			
		3. Basic Syntax and Concepts: a. Understanding JSX syntax b. Writing components c. Understanding props and state d. Rendering lists and conditional content e. Styling react components f. Debugging react app g. Working with Fragments, Portals & Refs h. Handling side effects, using reducers, using context API i. Building class based components j. Life cycle hooks, k. Custom react hooks l. Animating react app	3		
		4. React Router: a. Setting up routes b. Understanding components and links	1		
		5. Data Fetching: a. Introduction to calling APIs b. Setting up data fetching			
		6. State Management: a. Introduction to Redux b. Setting up store c. Working with actions and reducers	1		

		<p>7. Testing: a. Introduction to React testing b. Setting up unit tests</p> <p>8. Deployment: a. Overview of deployment options b. Setting up deployment environment</p> <p>9. Final Project: - Developing a web application with using all above concepts</p>	<p>1</p> <p>3</p>		
Week - 8, 9	React Native	<p>1. Introduction to React Native: A. What is React Native? B. Benefits of using React Native C. Basic concepts and components of React Native</p> <p>2. Setting up development environment: A. Installing Android studio B. Installing Xcode C. Setting up React Native CLI</p> <p>3. Components: A. Introduction to components B. Types of components C. Working with components</p> <p>4. Styling React Native Apps: A. Introduction to styling B. Working with Flexbox C. Working with CSS</p> <p>5. Working with APIs: A. Introduction to APIs B. Using Axios/Fetch to make API calls C. Working with RESTful APIs</p> <p>6. Working with Navigation: A. Introduction to navigation B. Working with Stack Navigator C. Working with Tab Navigator</p> <p>7. Working with Redux: A. Introduction to Redux B. Working with Actions C. Working with Reducers</p> <p>8. Debugging and Deployment: A. Debugging React Native apps B. Deployment to App Stores C. Working with Testflight D. Generate apk file</p> <p>9. Final Project: - Developing a mobile application with using all above concepts</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>4</p>	React Native Tutorial	Debapriya
		<p>1. Introduction to Node.js a. Overview of Node.js b. Installing Node.js c. Node.js development environment setup</p>	1		

Week - 10, 11, 12	Node.js	2. Node.js Basics a. Modules & Packages b. Working with File System c. Working with Streams d. Working with Events & EventEmitter e. Working with Timers f. Working with Promises	3	Node.js Tutorial	Ebi
		3. Node.js Advanced a. Asynchronous Programming b. Working with Express, MySQL & MongoDB c. Working with Socket.io d. Working with REST APIs e. Working with Authentication & Authorization	3		
		4. Node.js Testing a. Introduction to Testing b. Working with Mocha & Chai c. Writing Unit Tests d. Writing Integration Tests	2		
		5. Project a. Introduction to the Project b. Setting up the Project c. Developing the Project d. Testing the Project e. Deploying the Project	4		
		6. Learn basics of AWS	2		