

Module 1: Introduction to Web Development	10 hours
Introduction to Web Designing	
Understanding the structure and purpose of HTML	
Creating and organizing content using div elements	
Building tables for tabular data representation	
Creating interactive forms with input elements	
Implementing different layouts using CSS	
Module 2: Working with Images and External Libraries	3 hours
Adding images to web pages	
Introduction to Bootstrap for responsive web design	
Utilizing Font Awesome icons for visual enhancements	
Module 3: JavaScript and DOM Manipulation	10 hours
Introduction to JavaScript programming	
Manipulating the Document Object Model (DOM)	
Enhancing interactivity with JavaScript events	
Working with ES6 features like arrow functions, template literal, spread operators	
Rest Parameters, Default parameters	
Module 4: Introduction to TypeScript and JSON	2 hours
Overview of TypeScript as a Superset of JavaScript	
Understanding JSON (JavaScript Object Notation)	
Working with JSON data in TypeScript	
Module 5: Introduction to Angular	35 hours
Introduction to Node and NPM	
Setting up the Angular development environment	
Overview of Angular architecture and concepts	
Using Angular CLI for project scaffolding	
Bootstrapping the first Angular Application	
Module 6: Angular Components and Dependency Injection	
Introduction to the component hierarchy	
Declaring metadata with @Component decorator	
Creating Angular components for modular development	
Understanding the concept of dependency injection in Angular	
Building reusable services for data manipulation	

Module 7: Component Bindings ,Directives, Models and Decorators	
Component to component interaction	
Implementing conditional rendering with ngIf and ngFor directives	
Working with models and two-way data binding	
Utilizing the input decorator and event emitters	
Module 8: Forms and Validation in Angular	
Working with template driven forms	
Introduction to reactive forms in Angular	
Implementing form validation and error handling	
Module 9: Advanced Angular Features	
Using pipes for data transformation and formatting	
Understanding common Angular CLI commands for development and deployment	
Manipulating arrays and performing common operations	
Module 10: Advanced Angular Topics	
Subscribing to Observables	
Implementing authentication and authorization with Auth Guard	
Managing application environments	
Working with browser storage (session storage and local storage)	
Module 11: Handling Cross-Origin Resource Sharing (CORS)	
Understanding CORS and its implications in web development	
Implementing CORS handling in Angular applications	
Module 12: Interacting with REST web services API	
Retrieving data with the HTTP (HyperText Transfer Protocol) object	
Sending data asynchronously with POST	
Invoking different HTTP methods	
Gracefully handling errors	
Total Hours	60 hours