HTML, CSS, and JavaScript Course Catalog – 90 Days

Day	Module	Topics Covered
1-2	**Introduction to Web Development**	Overview of Web Development, Understanding the Web, Introduction to HTML, CSS, and JavaScript
3-4	**HTML Basics**	HTML Structure, Elements, Tags, Attributes, Creating a Simple Web Page
5-6	**HTML Forms**	Form Elements, Input Fields, Buttons, Labels, Form Validation
7-8	**HTML Lists & Tables**	Ordered & Unordered Lists, Tables, Table Structure, Merging Cells
9-10	**HTML Multimedia**	Embedding Images, Audio, Video, Using iframe, Audio and Video Tags
11-13	**Introduction to CSS**	What is CSS, Syntax, CSS Selectors, Properties, Colors, Text Styling, and Fonts
14-15	**CSS Box Model**	Padding, Border, Margin, Box Sizing, Box Model Principles
16-17	**CSS Layouts**	Positioning (Static, Relative, Absolute, Fixed), Flexbox Basics, Grid Layout
18-19	**CSS Styling Techniques**	Backgrounds, Gradients, Shadows, Transparency, CSS Transitions
20-21	**Responsive Web Design**	Media Queries, Mobile-first Design, Viewport Meta Tag, Adaptive Layouts
22-23	**CSS Flexbox**	Flex Container, Flex Items, Aligning and Justifying Content, Flexbox Advanced Layouts
24-25	**CSS Grid**	Grid Containers, Grid Items, Defining Rows and Columns, Aligning Grid Items
26-27	**CSS Animations**	CSS Keyframes, Animation Properties, Transitions, Transformations
28-30	**Introduction to JavaScript**	What is JavaScript, Syntax, Variables, Data Types, Operators, Comments
31-32	**JavaScript Functions**	Declaring Functions, Function Arguments, Return Values, Function Scope
33-34	**JavaScript Control Structures**	if, else, switch-case, loops (for, while, do-while), Break & Continue
35-37	**JavaScript Arrays & Objects**	Creating Arrays, Array Methods, Objects in JavaScript, Working with JSON
38-40	**DOM Manipulation**	DOM Structure, Selecting Elements, Modifying HTML/CSS with JavaScript
41-42	**Event Handling**	Event Listeners, Mouse Events, Keyboard Events, Event Propagation
43-45	**JavaScript Error Handling**	try, catch, throw, Handling Errors in JavaScript

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46-47	**Advanced JavaScript Functions**	Arrow Functions, Anonymous Functions, Callback Functions, Higher-order Functions
48-49	**JavaScript Object-Oriented Programming (OOP)**	Classes & Objects, Constructors, Inheritance, Encapsulation, Polymorphism
50-51	**Asynchronous JavaScript**	Understanding Asynchronous JavaScript, Callbacks, Promises, async/await
52-54	**JavaScript DOM Events & AJAX**	Handling Events, Using AJAX for Dynamic Content, Fetch API, JSON and API Integration
55-57	**CSS Preprocessors**	Introduction to SASS/SCSS, Variables, Nesting, Mixins, Functions
58-59	**Version Control with Git**	Introduction to Git, Git Commands (clone, commit, push, pull), GitHub Basics
60-62	**Introduction to Web Accessibility**	Accessibility Basics, WCAG Guidelines, ARIA Roles, Keyboard Navigation
63-65	**Web Performance Optimization**	Optimizing Images, Lazy Loading, Minification, CSS & JavaScript Compression
66-68	**JavaScript Libraries**	Introduction to jQuery, Using jQuery for DOM Manipulation, Animations, AJAX
69-71	**Introduction to Web Development Frameworks**	Overview of Frontend Frameworks (React, Vue.js, Angular), Pros and Cons
72-74	**Introduction to Web APIs**	Working with Web APIs, Fetch API, Handling Data, Making API Requests
75-77	**Building a Simple Website with HTML, CSS & JS**	Design a Multi-page Static Website, Implement Interactive Features with JavaScript
78-80	**Responsive Design with Media Queries**	Advanced Media Queries, Mobile-first Approach, Creating Fully Responsive Websites
81-83	**JavaScript Projects**	Build Dynamic Web Pages, Interactive Forms, Image Sliders, Real-time Features
84-86	**Creating a Personal Portfolio**	Designing a Portfolio Website, Showcasing Projects, Custom Animations
87-89	**Debugging & Testing**	Debugging JavaScript with Browser DevTools, Unit Testing with Jest, Best Practices
90	**Final Project & Certification**	Complete Final Project, Review Key Concepts, Present Final Project, Exam & Certification