

## ***Lesson plan for web development with C#, Asp.net, SQL server, CSS, html, Java Script, Jquery in 120 hours***

### **➤ Week 1-2: Introduction to Web Development and C# Basics (12 hours)**

- Overview of web development and its components
- Introduction to C# programming language
- Setting up the development environment (Visual Studio)
- Basic C# syntax, data types, and variables

### **➤ Week 3-4: HTML, CSS, and Front-End Basics (12 hours)**

- Introduction to HTML and its structure
- Creating basic HTML pages and forms
- Introduction to CSS for styling web pages
- Applying styles, classes, and IDs
- Responsive design principles

### **➤ Week 5-6: JavaScript Fundamentals (12 hours)**

- Introduction to JavaScript and its role in web development
- Variables, data types, and operators
- Functions and control flow in JavaScript
- DOM manipulation and event handling

### **➤ Week 7-8: jQuery and Front-End Interaction (12 hours)**

- Introduction to jQuery for simplified DOM manipulation
- Working with jQuery selectors and events
- Building interactive web elements using jQuery

### **➤ Week 9-10: ASP.NET Web Forms and Server-Side Logic (12 hours)**

- Overview of ASP.NET Web Forms framework
- Creating web forms and server controls
- Handling user input and form submission
- State management techniques (view state, session, etc.)

### **➤ Week 11-12: SQL Server and Database Fundamentals (12 hours)**

- Introduction to SQL Server and relational databases
- Designing database schema and tables
- Writing basic SQL queries (SELECT, INSERT, UPDATE, DELETE)

- **Week 13-14: Advanced Front-End Development (12 hours)**
  - CSS layout techniques and responsive design
  - Introduction to CSS frameworks (e.g., Bootstrap)
  - CSS pre-processors (e.g., SASS/LESS)
  
- **Week 15-16: ASP.NET MVC and Dynamic Web Applications (12 hours)**
  - Introduction to ASP.NET MVC framework
  - Model-View-Controller architecture
  - Building dynamic web applications using Razor syntax
  
- **Week 17-18: Authentication, Security, and APIs (12 hours)**
  - User authentication and authorization
  - Implementing registration and login functionality
  - Introduction to APIs and RESTful principles
  
- **Week 19-20: Advanced JavaScript and Deployment (12 hours)**
  - Advanced JavaScript concepts (closures, async programming)
  - Handling API requests and responses
  - Introduction to Git version control
  - Deploying web applications to hosting services
  
- **Week 21-22: Final Projects and Wrap-Up (12 hours)**
  - Splitting the class into groups for final projects
  - Project planning, development, and troubleshooting
  - Presentation and sharing of final projects

Throughout the course, allocate time for practical exercises, coding challenges, and hands-on projects. Encourage students to work on real-world scenarios to reinforce their learning and gain practical experience. This plan is designed to introduce each technology while allowing room for practice and exploration.