**WEB DEVELOPMENT COURSE CONTENT**

**1. HTML (HyperText Markup Language)**

* Introduction to HTML
* Basic Structure of an HTML Document
* Elements and Tags
* Headings, Paragraphs, Lists, Links
* Images, Tables, Forms
* Semantic HTML5 Elements
* Audio, Video Embedding
* Best Practices in HTML

**2. CSS (Cascading Style Sheets)**

* Introduction to CSS
* Syntax and Selectors
* Inline, Internal, and External CSS
* Colors, Backgrounds, Borders
* Fonts and Text Styling
* Box Model (Margin, Padding, Border)
* Positioning: Relative, Absolute, Fixed, and Sticky
* Flexbox Layout
* Grid Layout
* Transitions and Animations
* Responsive Web Design (Media Queries)

**3. Bootstrap**

* Introduction to Bootstrap
* Grid System and Responsive Design
* Bootstrap Components (Navbar, Forms, Buttons, etc.)
* Cards, Alerts, and Modals
* Flexbox in Bootstrap
* Customizing Bootstrap with CSS
* Creating Responsive Web Pages using Bootstrap

**4. JavaScript**

* Introduction to JavaScript
* Variables, Data Types, and Operators
* Functions and Events
* DOM (Document Object Model) Manipulation
* Loops and Conditions
* Arrays and Objects
* Event Handling
* Form Validation
* JavaScript Libraries (like jQuery introduction)
* Basic Debugging Techniques

**5. PHP (Hypertext Preprocessor)**

* Introduction to PHP
* Syntax and Structure
* Variables and Data Types in PHP
* Control Structures (If, Switch, Loops)
* Functions and Arrays
* Superglobals ($\_GET, $\_POST, $\_SESSION, $\_COOKIE)
* Form Handling
* File Handling (File Uploads and Downloads)
* Session Management
* Error Handling
* PHP and HTML Integration

**6. SQL (Structured Query Language)**

* Introduction to Databases and SQL
* Creating a MySQL Database
* Basic SQL Commands (SELECT, INSERT, UPDATE, DELETE)
* Filtering Data (WHERE, LIKE, BETWEEN)
* Joins and Relationships
* Aggregate Functions (COUNT, SUM, AVG)
* Grouping Data (GROUP BY, HAVING)
* Subqueries
* Working with Multiple Tables
* Connecting PHP with MySQL (PDO and MySQLi)
* Creating Dynamic Web Pages with Database Integration