📘 2-Month Web Development Course Syllabus

Technologies Covered: HTML, CSS, JavaScript

◇ Introduction & Tools

- Overview of Web Development
- Importance of HTML, CSS, JavaScript
- Career Opportunities in Web Development
- Installing VSCode & Setting Up Workspace, Online compilers
- Must-Have Extensions for Developers

◇ HTML (HyperText Markup Language)

- HTML Document Structure: `<!DOCTYPE>`, `<html>`, `<head>`, `<body>`
- Meta Tags, Title, Link, and Script Integration
- Basic Tags: Headings, Paragraphs, Links, Images
- Lists: Ordered, Unordered, and Description Lists
- Tables: `<table>`, `<tr>`, `<td>`, `<th>`
- Forms: Input Types, Labels, Buttons, Form Attributes
- HTML5 Semantic Tags: `<header>`, `<nav>`, `<section>`, `<article>`, `<footer>`

◇ CSS (Cascading Style Sheets)

- Introduction to CSS: Inline, Internal, and External
- CSS Syntax and Selectors
- Colors and Units: px, %, em
- Text Styling: Fonts, Sizes, Line-Height
- Box Model: Content, Padding, Border, Margin
- Display Properties: Block, Inline, Inline-block, None
- Visibility and Overflow Handling
- Positioning: Static, Relative, Absolute, Fixed, Sticky
- Flexbox Layout: Flex Properties, Axis Control, Alignment
- CSS Grid: Rows, Columns, Grid Areas
- Responsive Design: Media Queries, Mobile-First Approach
- CSS Transitions and Basic Animations

◇ JavaScript (JS)

- JavaScript Syntax and Comments
- Variables: `var`, `let`, `const`
- Data Types: String, Number, Boolean, Null, Undefined

- Operators: Arithmetic, Comparison, Logical
- Control Structures: `if`, `else`, `switch`
- Loops: `for`, `while`, `do-while`, `break`, `continue`
- Functions: Declaration, Expression, Arrow Functions
- Arrays: Basic Methods (`push`, `pop`, `shift`, `unshift`), Higher-Order Methods (`map`, `filter`)
- Objects: Key-Value Pairs, Accessing and Modifying Object Data
- DOM Manipulation: `querySelector`, `getElementById`, `innerText`, `innerHTML`
- Event Handling: Click, Change, Submit Events, and Event Listeners
- Basic Form Validation with JavaScript

🌐 Building a Network on LinkedIn

- **Create a Strong Profile:** Add a professional photo, write a clear headline (e.g., *Web Developer in Training*), and showcase your skills and projects.
- **Grow Your Network:** Connect with classmates, instructors, developers, and recruiters. Always add a short message when sending requests.
- **Engage Regularly:** Share your learning journey, post your projects, and interact with tech content.
- **Follow and Join:** Follow tech companies, influencers, and hashtags like #WebDevelopment and #100DaysOfCode.
- **Use LinkedIn Jobs:** Set up job alerts, explore web development roles, and apply with your optimized profile.

◇ Capstone Project & Deployment

- Build a Mini Personal Portfolio Website
- Host Code on GitHub
- Deploy Live Site Using GitHub Pages
- Final Project Showcase
- Guidance on Next Learning Paths & Advanced Topics