TECHHUB SOLUTIONS

...be step ahead in your field

JS Course

Module 1: Introduction to JavaScript

- What is JavaScript?
- History and Importance of JavaScript
- Setting up Environment (Browser & VS Code)
- JavaScript in HTML (Internal, External & Inline)
- Using the Console and Debugging Tools

Module 2: Basics of JavaScript

- Variables (`var`, `let`, `const`)
- Data Types (String, Number, Boolean, Null, Undefined, Object)
- Operators (Arithmetic, Comparison, Logical, Assignment)
- Comments in JavaScript
- Input & Output (`alert`, `prompt`, `console.log`)

Module 3: Control Flow

- Conditional Statements (`if`, `else if`, `else`, `switch`)
- Loops (`for`, `while`, `do...while`)
- Break & Continue
- Nested Loops and Conditions

Module 4: Functions

- What is a Function?
- Function Declaration & Expression
- Parameters & Return Values
- Arrow Functions (`=>`)
- Scope (Local, Global) and Hoisting

TECHHUB SOLUTIONS

Module 5: Arrays and Objects

- Arrays: Creation, Access, and Methods (`push`, `pop`, `map`, `filter`, `forEach`)
- Multidimensional Arrays
- Objects: Properties & Methods
- JSON (JavaScript Object Notation) Basics

Module 6: DOM (Document Object Model) Manipulation

- What is DOM?
- Selecting Elements (`getElementById`, `querySelector`)
- Changing HTML & CSS with JS
- Event Handling (Click, Mouseover, Input events)
- Creating & Removing Elements Dynamically

Module 7: Advanced JavaScript Concepts

- ES6 Features Overview
- Template Literals
- Destructuring Arrays & Objects
- Spread and Rest Operators
- Classes and Object-Oriented Programming
- Modules (`import` and `export`)

Module 8: Error Handling and Debugging

- Types of Errors (Syntax, Runtime, Logical)
- `try...catch` Statements
- Throwing Custom Errors
- Using Browser DevTools

Module 9: Asynchronous JavaScript

- Introduction to Asynchronous Programming
- Callbacks and Callback Hell
- Promises (`then`, `catch`, `finally`)
- Async / Await
- Fetch API for HTTP Requests

TECHHUB SOLUTIONS

Module 10: JavaScript Projects

- Mini Project 1: Calculator
- Mini Project 2: To-Do List
- Mini Project 3: Image Slider
- Mini Project 4: Weather App using API
- Mini Project 5: Form Validation

Module 11: JavaScript Frameworks (Overview)

- What is a Framework/Library?
- Introduction to React.js, Vue.js, and Node.js
- How JavaScript Works with HTML & CSS
- Next Steps in Frontend Development

TECHHUB SOLUTIONS