Techno India NJR Institute of Technology, Udaipur

Java Script Technology

Total Time: 1 Month

1. **Introduction to JavaScript**

      Introduction to Scripting
      JavaScript Characteristics
      JavaScript and Common Programming Concepts
      JavaScript Flavors and Versions
      Technologies Based on JavaScript
      Server-Side vs. Client-Side Applications
      Annotating Your Code with Comments
      Expanding the Role of JavaScript

2. **Working with Variables and Data in JavaScript**

      Using JavaScript to Communicate with the User
      Using Data More Than Once: Variables
      JavaScript Operators
      JavaScript Expressions
      JavaScript Alerts and Prompts
      Inline Scripting, Simple User Events and Basic Event Handlers
      JavaScript Keywords and Reserved Words

3. **Functions, Methods and Events in JavaScript**

      Introduction to Functions
      Defining a Function
      Calling a Function
      Methods as Functions
      Types of Functions
      User Events and JavaScript Event Handlers

4. **Debugging and Troubleshooting JavaScript**

      What Is Debugging?
      Tools for Debugging Code
      Testing Code in Various Browsers
      Debugging Logic Errors
      JavaScript and Mobile Devices

5. **Controlling Program Flow in JavaScript**

      Controlling Decisional Program Flow
      The if...else Statement
      The while Statement
      The do...while Statement

The for Statement
The break Statement
The continue Statement
The switch Statement

6. The JavaScript Document Object Model (DOM)

The JavaScript Document Object Model (DOM)
The window Object
The document Object
The image Object
The history Object
The location Object
The navigator Object
The Virtual DOM

7. JavaScript Language Objects

Introduction to JavaScript Language Objects
The String Object
Evaluating Strings
JavaScript Regular Expressions
The Array Object
The forEach Method
The Map Method
The Date Object
Setting and Extracting Time Information
The Math Object