

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

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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

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