

Instructor Notes:

Web Basics - JavaScript

Lesson 00:



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Document History



Date	Course Version No.	Software Version No.	Developer / SME	Reviewer(s)	Approver	Change Record Remarks
19-Sep-2009	2.0	NA	Pradnya Jagtap			Updated to new template. And incorporated new examples.
Apr-2011	3.0	NA	Anu Mitra			Integration updates
Apr-2015	3.1	NA	Rathnajothi P			Revamped according to revised curriculum
May-2016	3.2	NA	Kavita Arora	Kavita Arora	Mahima Sharma	Revamped according to revised curriculum

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Course Goals and Non Goals

➤ **Course Goals:**

- At the end of this course you will be able to:
- Add interactivity to the static HTML pages
- Validate the input data provided by users, on the client side
- Manipulate style sheets on the fly to give a sophisticated look to any website

➤ **Course Non Goals:**

- Server-side scripting not covered.



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Pre-requisites



- Prerequisites for this course are:
 - Familiarity with Windows, GUI Concept and Web Browser Application
 - HTML
 - Experience of creation of a web page using HTML
 - Object Oriented Programming Concepts

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Intended Audience

- This course is designed for:
 - Trainee Programmers
 - Software Professionals



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Day Wise Schedule



➤ Day 1

- Lesson 1: Introduction to JavaScript
- Lesson 2: JavaScript Language
- Lesson 3: Working with Predefined Core Objects
- Lesson 4: Working with Arrays
- Lesson 5: Document Object Model

➤ Day 2

- Lesson 6: Working with Document object
- Lesson 7: Working with Form object
- Lesson 8: Working with Regular Expressions

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- Lesson 1: Introduction to JavaScript
 - 1.1. Basic Concepts of JavaScript
 - 1.2. Embedding JavaScript in HTML
 - 1.3 Writing JavaScript

- Lesson 2: JavaScript Language
 - 2.1. Data Types and Variables
 - 2.2. JavaScript Operators
 - 2.3. Control Structures and Loops
 - 2.4. JavaScript Functions

- Lesson 3: Working with Predefined Core Objects
 - 3.1. Data Types in JavaScript
 - 3.2. Overview of String object
 - 3.3. Math object
 - 3.4 Date object

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- Lesson 4: Working with Arrays
 - 4.1. Array Object
 - 4.2. Properties and Methods of Array object

- Lesson 5: Document Object Model
 - 5.1. JavaScript Document Object Model
 - 5.2. Window object
 - 5.3. Navigator Object
 - 5.4. Location Object
 - 5.5. History Object

- Lesson 6: Working With Document Object
 - 6.1. Document Objects
 - 6.2. Cookies

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- Lesson 7: Working with Form Object
 - 7.1. Form properties, Methods & Event handlers
 - 7.2. Text-Related Objects
 - 7.3. Button Objects
 - 7.4. Check Box and Radio Objects
 - 7.5. Select Objects

- Lesson 8: Work with Regular Expressions
 - 8.1. Use regular expressions
 - 8.2. Search using simple patterns and special characters
 - 8.3. Work with RegExp objects

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References



- JavaScript: A Beginner's Guide - by John Pollock
- <http://www.w3schools.com>



Instructor Notes:

Next Step Courses (if applicable)



- Servlet
- JSP

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Other Parallel Technology Areas



- VBScript