

# Web Basics – JavaScript for JEE Abridged

## Lesson 00:

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## Document History

| Date        | Course Version No. | Software Version No. | Developer / SME | 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                   | Rathnajoithi P  | Revamped according to revised curriculum                |
| May-2016    | 3.2                | NA                   | Kavita Arora    | Revamped according to revised curriculum                |

## 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.



## 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

## Intended Audience

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



## 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

## Table of Contents

- 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

## Table of Contents

- 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



## Table of Contents

- 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

## References

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



## Next Step Courses (if applicable)

- Servlet
- JSP



## Other Parallel Technology Areas

- VBScript