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Website : www.citcchandigarh.com

Course Syllabus: JavaScript

Batch Name: JavaScript

Eligibility: 12th

Course Start: 1st of Every Month

Course Duration: 30 Hours

Courses / Modules Paper

Papers 1
JavaScript

Module 1:

1: Introduction to Java Script:

- 1.1 What is Java Script ?
- 1.2 Applications of Java Script
- 1.3 Java Script Syntax
- 1.4 First JS Example
- 1.5 Comments in Java Script
 - Type of Comments in Java Script
- 1.6 Adding Java Script Code in HTML Document
 - In the <head> Element
 - In the <body> Element
 - In an External File
- 1.7 Java Script Variables
 - Rules for declaring JS Variables
- 1.8 Scope of JS Variables
- 1.9 Java Script Data Types
 - Types of JS Data Types

- 4.5 Create an Array
- 4.6 Array Methods
 - concat()
 - forEach()
 - indexOf()
 - lastIndexOf()
 - join()
 - push()
 - pop()

5: Java Script DOM & Events

- 5.1 What is Dom ?
- 5.2 Levels of DOM
 - DOM Level 0
 - DOM Level 1
 - DOM Level 2
 - DOM Level 3
- 5.3 DOM Objects and their Properties & Methods
 - Window Object
 - Document Object
 - History Object
 - Navigator Object
 - Screen Object
 - String Object
- 5.4 DOM/HTML/JS Events
- 5.5 Types of Events

6: Java Script Validation

- 6.1 What is Validation
- 6.2 Validation Input Controls
- 6.3 Examples HTML Form with Validation

7: Java Script Cookies

- 7.1 Cookies
- 7.2 Creating Cookies
- 7.3 Setting Cookies Values
- 7.4 Reading Cookies
- 7.5 Expire(delete) cookies

8: JS Regular Expressions

- 8.1 Introduction to Regular Expressions
 - Common Uses of Regular Expressions
 - Syntax of Regular Expressions
- 8.2 Java Script RegExp Patterns
 - Brackets
 - Meta Characters
 - Quantifiers
- 8.3 Java Script RegExp Modifiers
- 8.4 Java Script RegExp Properties
 - Constructor
 - Global
 - LastIndex
 - Source

9: JS Page Redirect

- 9.1 Page Redirection
- 9.2 Creating Page Redirection
- 9.3 Page Redirection with onClick
- 9.4 Redirect Function
- 9.5 Page Redirect Examples

10: Java Script Animation

- 10.1 JS Animation Introduction
- 10.2 Types of Animation
 - Manual Animation
 - Automated Animation
- 10.3 Rollover with Mouse

11: Java Script Error Handling

- 11.1 Error Handling Introduction
- 11.2 Types of Errors
 - Syntax Errors
 - Runtime Errors
 - Logical Errors
- 11.3 Java Script Error handling Mechanism
- 11.4 Throw Statement

12: Java Script Image Map

- 12.1 Image Map
- 12.2 JS Map Methods
- 12.3 Example of Image Map

2: JS Operators & Control Statements

- 2.1 JS Operators
- 2.2 Types of Operators
 - Arithmetic Operator
 - Assignment Operator
 - Comparison Operator
 - Logical Operator
 - String Operator
 - Conditional Operator
 - Typeof Operator
- 2.3 Control Statements
- 2.4 Types of Control Statements
 - Decision Making Statements
 - Selection Statements
 - Loop Control Statements

3: JS Functions & Objects

- 3.1 Java Script Functions
- 3.2 Defining and Calling a Function
- 3.3 Function Arguments
- 3.4 Function Return Statement
- 3.5 Java Script Objects
- 3.6 Creating Object in Java Script
 - By Object Literals
 - By using new Keyword
 - By using an Object Constructor

4: JS Strings & Arrays

- 4.1 What is String ?
- 4.2 Creating JS String
 - By Using String Literal
 - By Using new Keyword
- 4.3 String Methods
- 4.4 What is Array ?