

JavaScript is the most popular programming scripting language for the Internet. Its power is to make the web pages interactive and responsive. It is lightweight and easy to learn. It is used in almost every website to respond to user actions, validate web forms, detect browser support, and much more.

**Prerequisites:** Basic knowledge of HTML and CSS

**Course Highlights:**

- ◆ Learn the basic programming concepts like data types, functions ,control structures and Strings
- ◆ Create functions to organize and reuse your code
- ◆ Modify HTML to create dynamic web pages
- ◆ Learn to Use DOM and jQuery to make interactive web pages
- ◆ Learn to Use canvas elements for animation
- ◆ Learn to program user controlled games

**Course Schedule (subject to change):**

SPR	Sun	TOPIC	DESCRIPTION
1.	1/31/2016	Getting Started	Introduction/Writing your first JavaScript program in Google Chromes.
2.	2/7/2016	Basic Data Types	Learn about all the different data types used in JavaScript. Variables, Strings, Numbers, Boolean
3.	2/21/2016	Arrays	Learn all about arrays ,lists .Learn the methods of holding pieces of data together
4.	2/28/2016	JavaScript Objects	Learns about JavaScript objects. Pairs of key and value. Real life objects, Properties and Methods
5.	3/6/2016	Combining JavaScript and HTML.	Learn where to place your JavaScript snippet in the existing HTML code. Different JavaScript events . Advantages of external JavaScript.
6.	3/13/2016	Hangman Word Guessing game using JavaScript	Gain some control over your code. Make your own hangman word guessing game using the concepts of JavaScript.
7.	3/20/2016	JavaScript Functions and form validations	Learn about JavaScript function definition, parameters, invocations, closures. Learn how to validate a form in JavaScript. Learn to use the different form APIs.
8.	3/27/2016	Object Oriented Programming in JavaScript	Get to know the basics of OOP. Definition, properties, methods and prototypes.
9.	4/3/2016	Animation Techniques	Learn about the Canvas Element. Draw graphics on web page. Create animations with canvas.
10.	4/17/2016	Complete Snake Game	Create a "Snake Game" using all the concepts you learnt so far.

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