**HTML5 and CSS3 Course Content**

**Introduction to WEB**

* W3C and W3C Members
* Why WHATWG?
* What is Web?

**HTML Basics**

* Introduction
* Parts in HTML Document
* Editors
* Basic
* Elements
* Attributes
* Headings
* Basics
* Paragraphs
* Formatting
* Links
* Head
* CSS
* Images
* Tables
* JavaScript
* HTML XHTML
* HTML4 Drawbacks

**HTML5 Introduction**

* HTML5 HISTORY
* New Features and groups
* Backward Compatibility
* Why HTML5?
* Power of HTML5:
* m or mobi or touch domains
* Common Terms in HTML5

**HTML5 Syntax**

* The DOCTYPE:
* Character Encoding:

**Obsolete Elements/Deprecated Elements**

* <acronym>
* <applet>
* <basefont>
* <big>
* <center>
* <dir>
* <font>
* <frame>
* <frameset>
* <isindex>
* <noframes>
* <s>
* <strike>
* <tt>
* <u>
* <xmp>

**HTML5 New Elements**

* New Semantic/Structural Elements
* <article>
* <aside>
* <bdi>
* <command>
* <details>
* <dialog>
* <summary>
* <figure>
* <figcaption>
* <footer>
* <header>
* <mark>
* <meter>
* <nav>
* <progress>
* <ruby>
* <rt>
* <rp>
* <section>
* <time>
* <wbr>
* What is Canvas?
* Create a Canvas
* Canvas Coordinates
* Canvas – Paths
* Canvas – Text
* Canvas – Gradients
* Canvas – Images

**HTML5 SVG**

* What is SVG?
* SVG Advantages
* Differences Between SVG and Canvas
* Comparison of Canvas and SVG

**HTML5 Drag/Drop**

* Introduction
* Make an Element Draggable
* What to Drag?Where to Drop?

**HTML5 Geo location**

* Introduction
* Locate the User’s Position+
* Handling Errors and Rejections
* The getCurrentPosition()
* Geolocation object

**HTML5 Video**

* Introduction
* Video on the Web
* How It Works?
* Video Formats and Browser Support
* HTML5 Video Tags

**HTML5 Audio**

* Introduction
* Audio on the Web
* How It Works?
* Audio Formats and Browser Support
* HTML5 Audio Tags

**HTML5 Input Types**

* Introduction
* color
* date
* datetime
* datetime-local
* email
* month
* number
* range
* search
* tel
* time
* url
* week

**HTML5 Form Elements**

* <datalist>
* <keygen>
* <output>

**HTML5 Form Attributes**

* New attributes for <form> and <input>New attributes for <form>:
* autocomplete
* novalidate

**New attributes for <input>**

* autocomplete
* autofocus
* form, formaction
* formenctype,formmethod
* formnovalidate
* formtarget
* height and width
* list, min and max
* multiple
* pattern (regexp)
* placeholder
* required, step

**HTML5 Semantic**

* Introduction
* What are Semantic Elements?
* non-semantic elements: <div> and <span>
* semantic elements: <form>, <table>, and <img>
* New Semantic Elements in HTML5
* <header>
* <nav>
* <section>
* <article>
* <aside>
* <figcaption>
* <figure>
* <footer>

**HTML5 Web Storage**

* What is HTML5 Web Storage?
* Browser Support
* The localStorage Object
* The sessionStorage Object

**HTML5 App Cache**

* What is Application Cache?
* Cache Manifest Basics
* HTML5 Cache Manifest

**HTML5 Web Workers**

* What is a Web Worker?
* Check Web Worker Support
* Create a Web Worker File
* Terminate a Web Worker

**HTML5 SSE**

* One Way Messaging
* Browser Support
* The EventSource Object

**HTML Media**

* New Media Elements
* <audio>
* <video>
* <source>
* <embed>
* <track>

**HTML Multimedia**

* What is Multimedia?
* Browser Support
* Multimedia Formats
* Video Formats
* Sound Formats

**HTML5 – MathML**

* Introduction
* Using MathML Characters
* Matrix Presentation
* Math Formulas

**CSS 1.0 and 2.0**

* CSS Basics
* CSS Introduction
* CSS Syntax,CSS Id, Class and CSS Styling,Styling Backgrounds
* Styling Text,Styling Fonts, Links, Styling Lists and Styling Tables
* CSS Border

**CSS3**

* Introduction
* CSS3 Modules
* Selectors
* Box Model
* Backgrounds and Borders
* Text Effects
* 2D/3D Transformations
* Animations
* Multiple Column Layout
* User Interface

**Borders**

* border-radius
* box-shadow
* border-image

**CSS3 Backgrounds**

* background-size
* background-origin

**CSS3 Text Effects**

* text-shadow
* word-wrap

**CSS3 Fonts**

* @font-face Rule
* font-stretch
* font-weight

**CSS3 2D Transforms**

* How Does it Work?
* Browser Support
* 2D Transforms
* translate()
* rotate()
* scale()
* skew()
* matrix()

**CSS3 3D Transforms**

* rotateX()
* rotateY()

**CSS3 Transitions**

* How does it work?
* transition-property, duration and delay

**CSS3 Animations**

* CSS3 @keyframes Rule
* Browser Support
* Animation, animation-duration

**CSS3 Multiple Columns**

* column-count
* column-gap
* column-rule

**CSS3 User Interface**

* resize
* box-sizing
* outline-offset