**REACTJS (v16.x) TRAINING COURSE OUTLINE**

***Duration :*** 03 days/24Hrs

**Software/Hardware :**

* + Windows 7 or later
  + 4GB RAM
  + Latest Chorme, IE, Firefox
  + Any IDE (VSCode, Sublime, Notepad++ etc.)
  + Internet Connection
  + Permission to download & install external libraries on participant machine

***Course Outline :***

**JavaScript Overview:**

Functions as first-class citizens

Prototypical chain

Asynchronous programming

IIFE & Scope

**ES2015 *Introduction***

***ES6*** Overview

Classes & Modules

Destructuring Objects & Arrays

Template String

Spread & Rest operators

Arrow Functions

Optional and Named Parameters

**Introduction to ReactJS**

* What is MV\* and SPA(Single Page Application) ?
* Difference between MV\* frameworks and ReactJS
* ReactJS vs. libraries and other frameworks
* Features overview of ReactJS

**Building Blocks of ReactJS** - **Virtual DOM**

* Introduction
* Change detection
* Unidirectional data flow

**Components in React JS**

* Understanding components
* Defining components
* Rendering components
* Props
* Composing components
* State
* Default props
* Life cycle of components

**JSX**

* What is JSX
* JIT vs Pre-process transformer
* Expressions
* HTML Attributes

**Events**

* Introduction
* Handling DOM events
* Custom events or component events

**Forms**

* Introduction
* Controlled components
* Uncontrolled components
* Refs

**Working with Hooks (v16.8)**

* Using State hook
* Using Effect hook
* Other Hooks & Hook Rules

**Routing**

* Introduction
* Handling routing in ReactJS
* Creating SPA
* Working with Route parameters
* Nested Routing
* Query Parameters

**Redux**

* Redux Overview
* Understanding Redux Architecture
  + Store
  + State
  + Reducer
  + Action
  + Action Creator
* Combining Reducers
* Applying Middleware
* Redux Devtools
* Redux Thunk