**Course: Angular2**                              **Pre-requisites: HTML, CSS, JavaScript**

**Durations: Beginners: 45 Sessions / Intermediate: 30 Sessions**

**Introduction to Angular Environment**
- **Architecture of Angular Apps, Development Environment, Structure of Angular**

**TypeScript Fundamentals**
- **Variables, Types, Arrow Functions, Interfaces, Classes, Objects, Constructors Access Modifiers, Modules**

**Angular Fundamentals**
- **Components, Templates, Directives, Services, Dependency Injection, Angular CLI**

**Displaying Data and Handling Events**
- **Property, Attribute and Event Binding,**
- **Adding Bootstrap, Class Binding, Style Binding, Event Filtering, Pipes, Custom Pipes**
- **Template Variables and Two-way Binding**

**Building Reusable Components**
- **Component API, Input Properties, Output Properties, Passing Event Data**
- **Templates, Styles, View Encapsulation, ngContent, ngContainer**

**Directives**
- **ngIf, ngSwitchCase, ngFor, ngClass, ngStyle,  Creating Custom Directives**

**Template-driven Forms**
- **Types of Forms, ngModel, Adding Validation, Specific Validation Errors, Styling Invalid Input Fields, Cleaner Templates,  ngForm, ngModelGroup, Control Classes and Directives**
- **Disabling the Submit Button, Working with Check Boxes, Drop-down Lists, with Radio Buttons**

**Reactive Forms**
- **Creating Controls Programmatically, Adding and Handling Validations**
- **Asynchronous Operations,  Asynchronous Validation**
- **Nested FormGroups,, FormArray, FormBuilder**

**Consuming HTTP Services**
- **Getting Data, Creating Data, Updating Data, Deleting Data**
- **OnInit Interface Extracting a Service**
- **Handling Errors, Handling Unexpected Errors, Handling Expected Errors**
- **Observables vs Promises**

**Routing and Navigation**
- **Configuring Routes, RouterOutlet, RouterLink, RouterLinkActive**
- **Route Parameters, Multiple Parameters, Query Parameters**
- **Subscribing Observables, SwitchMap Operator, Programmatic Navigation**