**Angular4 Curriculum - 24 Hrs**

**Module #1: Introduction to Angular**

Introduction to Angular and different version, Use-Cases, Applications & Comparisons. Typescript Fundamentals. Angular CLI, Package Manager & Console. Setup Local Environment. NodeJS Introduction. Package Manager Operations, Software & Typescript Installation.

**Module #2: Architecture, Components & Features – I**

Compiler, \*ngIf and \*ngFor, Creating Package.json and tsconfig.json, Server Installation, Running Hello World Programs, Application Building, AngularJS Architecture, Components, Bootstrap & DOM, Directives & Pipes, Data Binding & Persistence, Business Applications, Case Studies & Best Practices. Component Styling & Multi-component Applications, Creating a Single page application.

**Module #3: Architecture, Components & Features – II**

Introduction to TypeScript 2.1 & ES6 JavaScript, TypeScript setup, Overview of ES6, Classes, Functions, Datatype, Interface, Modules, Parameters, Template, Destructuring, Block-Scoped Constructs, NgModule & Root Module. Component - Data Flows, Subscribing to Component Events via Output.

**Module #4: Directives, Pipes & Events**

Structural Directives, NgIf & Ngfor. Attribute Directives, Built-in & Custom. Creating & Utilizing Directive Values. Introduction to Events, Working with Events in Directives, Introduction to Angular Pipes, Built-in & Custom Pipes.

**Module #5: Forms, Validators & Error Handling**

Introduction to Forms, Angular Forms & Template-driven Forms, Model Driven Forms. Introduction to Validation. Built-in & Custom Validation. Error Handling & Forecasting. Angular forms vs HTML forms

**Module #6: Dependency Injections & Services**

Introduction & Usage of Dependency Injections. Services in Angular, Class Constructor Injections, Creating & Provision of Services. Integrating Services & Components. The Inject Decorator, The Opaque Token.

**Module #7: HTTP Calls & Bundle Types**

The Angular HTTP Bundle. System Workflows, Mock Back-end for HTTP Calls. Using HTTP for GET Calls. Using URL Search Parameters, Using HTTP for POST, PUT and DELETE Calls.

**Module #8: Routing & Navigation**

Introduction to Routing, Setting Base Href & Configuration Routes, ParamMap, CanDeactivate, Application Routing Workflows, Registering Routing in the App Module. Router Outlets & Links. Working with Router Parameters, Using Router Class to Navigate.