**Exploring ASP.NET MVC**

 Exploring ASP.NET MVC 5

 ASP.NET Web Forms – issues

 ASP.NET MVC Architecture

 ASP.NET MVC Benefits

 features of MVC 5

 ASP.NET Web Forms or MVC?

 Exploring a Web Pages Application

 Exploring a Web Forms Application

 Exploring an MVC Application

**Module 78: Getting Started with ASP.NET MVC**

 ASP.NET MVC project templates

 Understanding the structure of an ASP.NET MVC project

 Naming conventions

 Creating views

 Defining controllers

 Defining a data model

**Module 79: Creating a Complete ASP.NET MVC Application**

 Creating strongly-typed views

 Understanding URLs and action methods

 Using HTML helpers

 Handling form post-backs (Ajax call with json)

 Data validation

 Defining Models and Views

 Handling Form Submissions

 Custom model bindings

**Module 80: Working with Controllers in ASP.NET MVC**

 Routes and Controllers

 Adding custom entries to a route table

 Actions and Parameters

 Action Results

 Action Selectors

 Action Filters

 Passing validation errors to Views

 Passing temporary data to Views

 Asynchronous Controllers

**Module 81: Using the Razor View Engine**

 What, why and when

 Razor Syntax

 Code Expressions

 Code Blocks

 Layout Views

 HTML Helpers

 Partial Views

 Rendering Sections

 Commenting

 Calling utility functions

 Calling Model data

 Bundling and Minification

**Module 82: Building a Resilient ASP.NET MVC 5 Web Application**

 Developing Secure Sites

 State Management

 View bag

 View data

 Temp Data

**Module 83: Working with Data (Part 1)**

 The Entity Framework (Code based/model based/ DB first)

 Building Entities

 Using LINQ

 Defining a data repository

 Performing CRUD operation in database using Scaffolding

 Html Custom Helper Templates

**Module 84: Working with Data (Part II)**

 Performing complex custom CRUD operations

 Using ADO.NET Entity Framework

 Using ADO.NET

 Table relation in code first approach and others

 Data Annotation

**Module 85: Controlling Access to ASP.NET MVC 5 Web Applications**

 Authentication & Authorization

 Membership providers

 Roles based authentication

 Avoiding cross site request forgery

 Implementing Authentication and Authorization

**Module 86: RESTful Web Services using Web API**

 Why REST Services?

 What is REST?

 Comparing REST with other SOA frameworks

 Introduction to ASP.NET Web API

**Module 87: Implementing Web APIs in ASP.NET MVC 5 Web Applications**

 Developing a Web API

 Calling a Web API from Web Applications

 Developing a Web API to perform a CRUD operation

 Calling a Web API from ASP.NET MVC application