

### **.NET Course Syllabus:**

The syllabus of will be framed as per the requirement of corporate. We are mainly concentrating in the following syllabus

- ❖ Introduction to .Net Framework & OOPS concepts
- ❖ Classes & objects
- ❖ Constructors
- ❖ Inheritance and Polymorphism in C#
- ❖ Method Overriding and Method Hiding
- ❖ Arrays
- ❖ Enumerations
- ❖ Structs
- ❖ Creating Window based application

### **Visual C#.Net**

- ❖ Introduction to C# . NET
- ❖ C# Predefined Types
- ❖ Iteration Statements
- ❖ Objects in C#
- ❖ Constructors
- ❖ Inheritance
- ❖ Polymorphism
- ❖ Arrays
- ❖ Collections
- ❖ Interfaces
- ❖ Delegates and Events
- ❖ Console Applications
- ❖ Networking in C#

### **ASP.NET**

- ❖ Introducing ASP .Net
- ❖ ASP Vs ASP .Net
- ❖ Client Server Communication
- ❖ Three|tier Architecture
- ❖ Controls
- ❖ HTML Controls
- ❖ Server Controls
- ❖ Web Forms
- ❖ Master Pages
- ❖ Building Controls
- ❖ Accessing data from a database using ASP .Net
- ❖ Template Controls
- ❖ Authentication Methods
- ❖ Configuring ASP.NET Application settings
- ❖ Application settings and Deployment

## ADO.NET

- ❖ Introduction to ADO .Net
- ❖ Implementing ADO .Net
- ❖ Components of ADO.Net Object Model
- ❖ Connecting to Data Base Using Data Adapter
- ❖ Accessing DataBase through Data Set
- ❖ Data Binding Filtering and Sorting

## XML

- ❖ Extensible Markup Language
- ❖ DTD to define XML Documents
- ❖ XML Documents and validating them against a DTD
- ❖ XSL to transform XML Documents and Presenting the Data in a Web Browser
- ❖ XML Document Object Model
- ❖ Active Server Pages with XML
- ❖ XML in SOAP

## Silver Light Frame Work

- ❖ Introduction to Silver Light
- ❖ The Silver Light Architecture Versions Silver Light Hosting
- ❖ Supported Platforms
- ❖ Browsers Future Platforms Silver Light Vs WPF Installing Silver Light
- ❖ Silver Light Tools
- ❖ Silver Light Languages
- ❖ Accessing Data Using Silver Light
- ❖ Networking in Silver Light

## Ajax in .Net

- ❖ Introduction to ASP.Net AJAX
- ❖ The Script Manager Control
- ❖ Update Panel Control & Update
- ❖ Progress Control
- ❖ Timer Controls
- ❖ Dynamic Lay Out Property
- ❖ Using AJAX in ASP.Net
- ❖ Applications

## ADVANCE

### Windows Presentation Foundation

- ❖ OverView of WPF
- ❖ Creating a Simple WPF Application
- ❖ Handling Events Commands
- ❖ Navigating between Pages
- ❖ Customizing Appearance
- ❖ Sharing Logical Resources in an Application
- ❖ Creating Consistent User
- ❖ Creating New Controls

- ❖ Configuring Security settings

### Windows Communication Foundation

- ❖ Overview of WCF Architecture
- ❖ Designing an Application to be part of a Service Oriented Architecture (SOA)
- ❖ Using a Language Level Interface as a Service Contract
- ❖ Implementing a Simple WCF Service in Visual Studio 2008
- ❖ Configuring and Hosting WCF Services
- ❖ Handling Errors
- ❖ Applying Over all Security Requirements to a Binding
- ❖ Specifying enquired Clients and Service credentials working with Security Information

### Windows Work Flow Foundation

- ❖ Overview of Windows Work Flow Foundation
- ❖ Creating State Machine Work Flows
- ❖ Forward Chaining of Rules
- ❖ Changing Rules at Run Time
- ❖ Creating and Configuring Custom Activities
- ❖ Creating Custom Composite Activities
- ❖ Monitoring Work Flows
- ❖ Tracking Work Flows
- ❖ Managing Faults
- ❖ Creating and Managing Transactions
- ❖ Creating and Handling Compensations

### ASP .NET MVC

- ❖ Introduction to MVC
- ❖ MVC Architecture
- ❖ Domain models and Repositories
- ❖ Using Object and Collection Initializers
- ❖ Entity Framework
- ❖ Lambda Expressions
- ❖ Working with Controllers
- ❖ Introducing the Controller
- ❖ Model Templates
- ❖ Templated View Helpers
- ❖ Working with the ASPX engine
- ❖ Working with the Razor Engine

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