

# ASP.NET Programming

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**Duration: 40-45 Hours**

**Prerequisites**

- Knowledge of C# Programming Language is required.

**Programming Contents**

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**1. Introduction to ASP.NET**

- .NET Framework Architecture
- Common Language Runtime
- Common Type Specification
- Web Configuration File

**2. ASP.NET Server Control**

- Asp.NET Server Controls
- HTML Controls
- ASP.NET Vs Server Controls
- User Controls
- Advanced Controls

**3. Validation Controls**

- Types of Validation
- Compare Validator
- Range Validator
- Regular Expression Validator
- Required Field Validator
- Custom Validator
- Validation Summary

**4. Master Pages**

- Creating Master Pages
- Creating Content Page
- User Controls
- CSS, Skins, Themes

**5. State Management & Caching**

- Client Side State Management
- Server Side State Management
- Caching,
- Profile Management
- Tracing,
- Query String
- View State
- Session
- Application State

**6. Web Services**

- Creating Web services
- Hosting Web services
- Consuming Web services

**7. AJAX**

- AJAX Control Toolkit
  - ScriptManager
  - ScriptManagerProxy
  - UpdatePanel
  - UpdateProgress
  - Timer
- AJAX Scripting

**Database Concepts**

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**1. ADO.NET**

- Database Basics
- Connection To ADO.Net
- Query, and SubQuery
- Connecting ASP.NET Application with Database
- DataSet, DataTable
- SqlCommand,SqlConnection, SqlDataAdaptor,
- Using Stored Procedure

**2. LINQ**

- Introduction of LINQ
- Why LINQ and advantages of LINQ
- LINQ Query Syntax
- Standard Query Operators:

- Lambda Expression
- LINQ to XML

**3. XML Data Access**

- XML Introduction
- XML Syntax
- XML Elements
- XML Attributes
- XML Validation
- XML Validator
- XML Viewing
- XML CSS
- XML XSLT

**4. Testing & Deployment**

- Unit Testing
- Publishing Application

❖ **Industry Project under the Guidance of .Net Expert.**

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