



# Information Booklet

**Course Name:**  
**Course in ASP.NET**  
**Course Code: P3**



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## Course in ASP.NET

### 1. Introduction:

ASP.NET is a web application framework developed and marketed by Microsoft to allow programmers to build dynamic web sites, web applications and web services. ASP.NET is built on the Common Language Runtime (CLR), allowing programmers to write ASP.NET code using any supported .NET language.

### 2. Eligibility:

XIIth pass and above

### 3. Duration:

80 Hours. Two and half hours each day

- Theory            20        hours
- Practical        60        hours

### 4. Course Details:

Type of course	Professional IT Course
Syllabus	<ul style="list-style-type: none"> <li>• Programming Concepts <ul style="list-style-type: none"> <li>○ Flowcharts</li> <li>○ Algorithms</li> <li>○ Data Flow Diagrams</li> <li>○ Software Life Cycle</li> </ul> </li> <li>• Introduction to ASP <ul style="list-style-type: none"> <li>○ Introducing web application</li> <li>○ Understanding ASP.net</li> <li>○ Creating an ASP .net application using the visual studio .net IDE</li> <li>○ Cascading style sheets</li> <li>○ Creating a web form in ASP .net</li> </ul> </li> <li>• Controls and Events <ul style="list-style-type: none"> <li>○ Server controls in ASP .net</li> <li>○ Creating custom controls</li> <li>○ Handling events in ASP .net</li> <li>○ Creating web form using server controls</li> </ul> </li> <li>• Templates <ul style="list-style-type: none"> <li>○ Data binding</li> <li>○ Web server control templates</li> <li>○ Creating templates for server controls</li> <li>○ Manipulating the data in a database</li> </ul> </li> </ul>

- Working with XML
  - Introducing XML
  - Working with XML server controls
  - Binding XML data to web form controls
  - Converting relation data into an XML document
  - Using the information search tool
- Active X and COM
  - Invoking COM/com+ and activex components
  - Creating multi-tier web application
- Using Web Services and COM Components
  - Creating and Invoking Web Services
  - Invoking COM/COM+ and ActiveX Components
  - Creating a Multitier Web Application
- Error Handling And Debugging
  - Implementing Error Handling in Web-Based Applications
    - Types of Errors
    - Error Handling
  - Testing Web-Based Applications
    - Guidelines for Testing
  - Debugging Web-Based Applications
    - Using Visual Studio.NET Debugging Environment
  - Implementing Tracing in a Web-Based Application
    - Page-level Tracing
    - Application-level Tracing
    - Using the Trace Object
    - Using Trace Listeners
    - Using Trace Switches
  - Introduction to Secure Sockets Layer
  - Installation of Front Page Server Extensions
- State Management and Accessibility
  - Understanding State Management
    - Overview of State Management
    - Client—Side State Management Options I
    - Server-Side State Management Options
    - Database Support
  - Sending Email from an Asp.NET page
  - Implementing Accessibility ,
    - Designing Accessibility Application
  - Creating Web Application using Accessibility
- Globalization And Optimization
  - Globalization in ASPNET
    - Implementing Globalization
    - Character Encoding
    - Mirroring
    - Validating User Input
    - Working with Resources
    - Configuring a Web Application for Globalization
  - Optimizing Web Applications

- Understanding Caching
  - Output Caching
  - Fragment Caching
  - Data Caching
- Creating a Web Form in ASPNET
- Migration from ASP to ASPNET
- Code Access Security
- Configuring and Securing Web Applications
  - Configuring ASPNET Web Applications
    - Hierarchical Configuration System
    - Structure of a Configuration File
    - Configuration Sections
    - Adding and Retrieving Custom Configuration Information
  - Securing ASPNET Web Applications
    - Microsoft, NET Framework Security
    - Configuring an ASP.NET Application for Security
  - Implementing Form Authentication
- Deploying an ASP NET Web Application
  - Introduction to Deployment
    - Types of Deployment Projects
  - Creating a Web Setup Project
    - Creating a Web Setup Project Using the Setup Wizard
    - Creating a Web Setup Project Manually
    - Working with Deployment Editor
    - Deployment Guidelines for ASP.NET Applications
  - Deploying a Web Application using the Web Setup Project
  - Authenticode Signing
  - Microsoft Passport Services
- Usage of MY SQL Database
- Project Development (So as to understand development of forms, control of forms, reports and dynamic web application).

## 5. Fee:

Rs. 4000/- (exclusive of all taxes).