

**Course Title : Asp.Net 2.0 with VB**

**Duration : 5 days**

This five-day training program introduces the participants to the fundamentals of Designing Web Applications in Asp.Net 2005 using VB.

### **Program objectives**

- This course will provide delegates a base in web programming
- Helps in designing web page using different controls
- Retrieving data from Data Base and displaying in web form
- Managing state of the web page
- Improving performance using Caching
- Providing user/role based security
- Creating and consuming web services

### **Prerequisites**

The knowledge of Visual Basic.Net programming language is mandatory.

### **Audience**

This Training is for the beginners to Asp.Net Application.. The course coverage and pace would vary slightly, depending on the composition of the batch.

### **Set up Requirements**

Computer with the following software

- IIS
- Microsoft Visual Studio 2005
- Database - MS SQL Server 2005

### Day-wise Breakup

Day	Module	Topics
Day 1	Module 1	Introduction to Asp.Net 2005
	Module 2	Web Form Controls
Day 2	Module 3	ADO.NET architecture
	Module 4	Data Source Control
	Module 5	Data Bound Control
Day 3	Module 6	Navigation Control
	Module 7	Themes and Master Pages
	Module 8	State Management
Day 4	Module 8	State Management continued..
	Module 9	Caching
Day 5	Module 10	Security
	Module 11	Login Controls and Membership API
	Module 12	Web Services

## Course Contents

### Module 1: Introduction to Asp.Net 2005

- What is Web Application
- What is Web Server - IIS
- Visual Studio IDE 2005
- Response / Request Model

### Module 2: Web Form Controls

- Using HTML server controls
- ASP.NET Server controls
- IsPostBack Property
- PostBack Control
- Auto Post Back Property
- Validation Controls
- New Controls

### Module 3: ADO.NET Architecture

- Use of ADO.NET
- Disconnected Model
- Connected Model
- Example on connected and disconnected model

### Module 4: Data Source Control

- SQL Data Source Control
- Object Data Source Control
- Example – Retrieve, Insert, update, Delete data using Data Source

### Module 5: Data Bound Control

- GridView
- Detail View
- DataList
- Paging
- Sorting
- Bound Field
- CommandButton Field
- Template Field

### Module 6: Navigation Control

- XML Data Source
- SiteMap Data Source
- TreeView
- Menu
- SiteMap Control

### Module7: Themes and Master Pages

- Creating Themes in skin files
- Apply themes for the page
- Creating Master page
- Create content page

### Module 8: State Management

- Client side state management techniques
- View State
- Query String
- Cookie
- Server side state management techniques
- Application Variable
- Session Variable

### Module 9: Caching

- What is Caching
- Page Caching
- Data Caching
- Parameter Caching
- Expiration policy Sliding and Absolute expiration
- File Dependency
- SQL Data Cache invalidation
- Fragment Caching

### Module 10: Security

- What is Security
- Authentication
- Authorization
- Types of Authentication Windows, Forms, Passport
- Example using Windows security mode
- Example using Forms Security Mode

### Module 11: Login controls and Membership API

- Creating Security form Using Membership API function
- User / Role Based security
- Login Controls
- Login, Create User Wizard, Login View, Login Name, Login Status
- Change Password, Password Recovery

### Module 12: Web Services

- Introduction to Web Services
- The SOAP Protocol
- WSDL
- Create Web Service
- Test Web Service
- Consume Web Service