



# Course Brochure

## ASP.NET

### Overview

•Microsoft designed the ASP.NET technology, as part of its overall .NET strategy, to provide a very powerful platform for developing distributed Web applications. The instructional strategy for this course emphasizes project based learning, practice real-life problem solving skills and getting started with Asp.Net 3.5 programming using VS 2008 as quickly as possible.

### Pre-requisites

•Prior .NET experience is preferred, but not required. A working knowledge of Visual C# is assumed.

### Applications

## COURSE CONTENTS

### INTRO TO WEB TECHNOLOGIES

- ❖ HTML
- ❖ Client side scripting langs
- ❖ IIS Architecture
- ❖ Server side programming with ASP
- ❖ ASP objects Intro

### ASP.NET INTRO

- ❖ What is ASP.NET
- ❖ ASP VS ASP.NET
- ❖ Image Technique and code behind technique

### SERVER SIDE CONTROLS

- ❖ Client side control vs Server side controls.
- ❖ Type of server controls - HTML server controls,
- ❖ Examples on Web server controls.
- ❖ ASP.NET Page Execution Architecture

### STATE MANAGEMENT

- ❖ Cookies
- ❖ Session State
- ❖ Session Tracking Arch
- ❖ Application object
- ❖ Session and App events
- ❖ Global. AJAX
- ❖ Context
- ❖ viewstate

### ADO.NET

- ❖ Intro to ADO.NET Providers
- ❖ Data Reader
- ❖ Dataset
- ❖ Datalist
- ❖ Repeater
- ❖ Datasource Controls
- ❖ Grid view
- ❖ Details view
- ❖ List view

### LINQ

- ❖ Intro to Linq
- ❖ Linq to Object
- ❖ Linq to XML
- ❖ Linq to SQL

### CACHING

- ❖ Importance of Caching-  
ASP 3.0 Support for Caching
- ❖ Type of Caching in ASP.NET
- ❖ Output Caching
- ❖ Web user control(VS) custom control
- ❖ Fragment caching
- ❖ Data caching vs Application object

### ASP.NET CONFIGURATION

- ❖ Machine config vs Web config
- ❖ App Settings
- ❖ Compilation setting
- ❖ Custom error setting
- ❖ Session State Setting
- ❖ Enhancement in ASP.NET
- ❖ Inprocess VS out process session state
- ❖ State server and SQL Server
- ❖ Cookie less session

### ASP.NET TRACING

- ❖ Page Level
- ❖ Application Level

### SECURITY IN ASP.NET

- ❖ Authentication & Authorization
- ❖ Windows Based Authentication
- ❖ Form Based Authentication
- ❖ Passport Authentication
- ❖ Membership

## COURSE CONTENTS

### XML WEB SERVICES

- ❖ ASP 3.0 with MTS
- ❖ Intro to Web Services
- ❖ Role of WSDL - NET support for XML Web Service
- ❖ Client Apps for Web Service
- ❖ Caching Web Service
- ❖ SOAP
- ❖ UDDI Registry
- ❖ WCF

### E-mail Server

### INTRO TO MOBILE PROGRAMMING

- ❖ Mobile ASP.Net Arch
- ❖ MMIT [Micro Soft Mobile Internet Toolkit]
- ❖ Creating Mobile ASP.NET Page
- ❖ Mobile Emulator

### THEME AND SKIN

### MASTER PAGES

### SITE NAVIGATION

### WEB PARTS

- ❖ Web part manager
- ❖ Zone Types

### ASP.NET AJAX

### ASP.NET4.0 FEATURES

- ❖ Extensible output caching
- ❖ Shrinking session state
- ❖ Routing(or) URL routing
- ❖ Controls enhancements
- ❖ Dynamic date
- ❖ Silverlight with vs 2010

### ASP.NET SILVERLIGHT