

**Syllabus (Advanced Course – ASP.NET 4.0)**

**ADVANCED ASP.NET –WEB APPLICATION DEVELOPMENT**

**Course Duration : 45 Days**

**LINQ**

Introduction to LINQ

LINQ to DataSet.

LINQ to SQL.

LINQ to XML.

**Web Parts Control**

Introduction

WebParts Control

WebPart Manager

WebPart Zone

PageCatalogPart

Creating Webparts page

**Configuration**

Configuration Overview

Common Configuration Settings

Connecting Strings

Authentication

Authorization

**User Controls**

Creating User Controls

Interacting with User Controls

Loading User Controls Dynamically

### **Handling Emails**

Protocols for Email

Sending Mails

Managing Attachments

### **ASP.NET Web Services**

Introduction to XML Web services

Creating Web Service

Setting the Web Service Attribute

Test and Run Your Web Service

Consuming a Web Service in Client  
Application

Consuming a Third Party Web service

### **ASP.NET AJAX**

Understanding AJAX Technology

How AJAX Works

Building a ASP.NET Page with Ajax

Using UpdatePanel Control

AJAX Server Controls

AJAX Control Toolkit

Downloading and Installation

AJAX Control Toolkit Extenders

### **Crystal Reports**

Overview to Crystal Reports

Creating Crystal Reports with wizards

Integrating with Web Applications  
Customizing the Report Viewer  
Adding a Database or Table to a Report

## **XML**

Basics of XML  
Create XML Documents  
XmlReader and XmlWriter  
Repeater  
XmlDataSource Control

## **IIS 7**

Architecture of IIS 7  
Internet Information Service Manager

## **Deployment**

Publishing Web Applications.  
Create Web Setup Project.

## **WPF**

Introduction to WPF  
XAML Browser Application  
Working with WPF Controls

## **WCF**

Introduction to WCF  
Building WCF Service.  
Building WCF Client Application.

## **WWF**

Introduction to WWF

Working with Sequential Workflows

Working with State-based Workflows

## **Silverlight**

Introduction

ASP.NET Application with Silverlight

Using Silverlight Controls

Programming Silverlight applications

Creating Silverlight WCF Services

## **Introduction to MVC Framework**

Creating MVC Models

Creating a Data Repository

Implementing MVC Controllers

Implementing MVC Views