

## Contact Info:

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## .Net Framework Foundation Course

Modules	Topics
<b>OBJECTIVE:</b>	<p>The objective of this course is to provide students with an understanding about Asp.Net. For this course the student should familiar with Basic knowledge in Programming specially in C#. The course covers all major language features including Master Pages, AJAX Toolkit, Web Part Controls, and ADO.Net. We are also covering LINQ, WCF, Web Services. At the end of the course we are providing a Project Work (Case Study), so the students will get in -depth knowledge of the creating an interactive websites in subject to the real world applications. We show how to complete the real life and practical projects.</p>
<b>Introducing Visual Studio</b>	<ul style="list-style-type: none"><li>❖ <b>Understanding Visual Studio</b><ul style="list-style-type: none"><li>◆ Understanding .NET Framework</li><li>◆ Getting started with Visual Studio</li><li>◆ Installing IIS 7.5</li><li>◆ Visual Studio IDE</li><li>◆ New Features in Visual Studio IDE</li><li>◆ Simple C# programming constructs</li></ul></li></ul>
<b>OOP(Object oriented Programming) with C# Basics</b>	<ul style="list-style-type: none"><li>❖ <b>Objects, Class, Inheritance, Polymorphism, Overloading, overriding, Loops, Arrays, Functions, Methods basic</b></li></ul>
<b>Web Application in ASP.NET</b>	<ul style="list-style-type: none"><li>❖ <b>ASP.NET</b><ul style="list-style-type: none"><li>◆ Usage of Web Applications</li><li>◆ Creating a Simple Web Application</li><li>◆ Improvements in ASP.NET 4.0</li><li>◆ Coding Techniques in Web Application.</li></ul></li></ul>
<b>Standard Controls</b>	<ul style="list-style-type: none"><li>❖ <b>Controls</b><ul style="list-style-type: none"><li>◆ System. Web.UI. WebControl Class</li><li>◆ Using the Standard Controls</li><li>◆ Using the Container Controls</li><li>◆ The Table Control</li><li>◆ The AdRotator Control</li><li>◆ The Calendar control</li></ul></li></ul>
<b>Navigation Controls, Validation Controls</b>	<ul style="list-style-type: none"><li>❖ <b>Validation</b><ul style="list-style-type: none"><li>◆ Using the SiteMapPath Control</li><li>◆ The TreeView Control</li><li>◆ The Menu Control</li><li>◆ The RequiredFieldValidator Control</li><li>◆ The Range Validator Control</li><li>◆ Other validation controls</li></ul></li><li>◆ <b>Setting Foreground and Background</b></li><li>◆ <b>Login</b><ul style="list-style-type: none"><li>◆ The User Accounts</li><li>◆ The Login Control</li></ul></li></ul>

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<b>Login Controls</b>	<ul style="list-style-type: none"><li>◆ The LoginName Control</li><li>◆ The LoginStatus Control</li><li>◆ The LoginView Control</li><li>◆ The PasswordRecovery Control</li><li>◆ The Change Password Control</li><li>◆ The CreateUserWizard Control</li></ul> <b>Separation</b>
<b>Web Parts Controls</b>	<ul style="list-style-type: none"><li>◆ Overview of the WebParts Controls</li><li>◆ Creating a Simple WebParts Page</li><li>◆ The WebPartManager Control</li><li>◆ The CatalogZone Control</li><li>◆ The EditorZone Control</li><li>◆ The WebPartZone Control</li><li>◆ The ConnectionsZone Control</li></ul>
<b>Database Controls</b>	<ul style="list-style-type: none"><li>❖ ◆ Connected Data Access</li><li>❖ ◆ The SQLDataSource Control</li><li>❖ ◆ The ObjectDataSource Control</li><li>❖ ◆ The XMLDataSource Control</li><li>❖ ◆ The LinqDataSource Control</li><li>❖ ◆ The AccessDataSource Control</li></ul>
<b>Dynamic Data Controls</b>	<ul style="list-style-type: none"><li>❖ ◆ The DynamicControl Control</li><li>❖ ◆ The DynamicDataManager Control</li><li>❖ ◆ The DynamicEntity Control</li><li>❖ ◆ The DynamicFilter Control</li><li>❖ ◆ The DynamicHyperlink Control</li><li>❖ ◆ The DynamicValidator Control</li></ul>
<b>Master Pages and Themes</b>	<ul style="list-style-type: none"><li>❖ <b>Master Page</b><ul style="list-style-type: none"><li>◆ Describing Master Pages</li><li>◆ Creating a Simple Master Page</li><li>◆ Creating Nested Master Pages</li><li>◆ Creating a Web Form Using a Master Page</li><li>◆ Exploring Themes</li><li>◆ Describing Cascading Style Sheet</li></ul></li></ul>
<b>Introducing ASP.NET AJAX</b>	<ul style="list-style-type: none"><li>❖ <b>ASP.NET AJAX</b><ul style="list-style-type: none"><li>◆ Traditional and ASP.Net AJAX Web Applications</li><li>◆ New features of ASP.NET AJAX</li><li>◆ AJAX Server Controls,</li><li>◆ Creating an ASP.NET AJAX Application</li></ul></li></ul>
<b>Introducing Language-Integrated Query</b>	<ul style="list-style-type: none"><li>❖ ◆ Describing LINQ Queries</li><li>❖ ◆ Describing Standard Query Operators</li><li>❖ ◆ Exploring the LINQ to ADO.NET Technology</li></ul>

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<b>Windows Presentation Foundation</b>	<ul style="list-style-type: none"><li>❖ ♦ Describing PLINQJavaScript with forms</li><li>♦ Exploring XAML Browser Applications</li><li>♦ Implementing Typography in WPF</li><li>♦ Exploring New Controls in WPF</li><li>♦ Using DataGrid Control</li><li>♦ Using DatePicker Control</li></ul>
<b>Web, WCF, and Cloud Service</b>	<ul style="list-style-type: none"><li>❖ ♦ Using Calendar Control</li><li>❖ ♦ Using a Web Service</li><li>❖ ♦ Using WCF Service</li><li>❖ ♦ Cloud Service</li></ul>
<b>Introduction to MVC</b>	<ul style="list-style-type: none"><li>♦ ASP.NET MVC Architecture</li><li>♦ ASP.NET MVC Framework</li><li>♦ Creating an MVC Application</li></ul>
<b>Moving the user and transferring data</b>	<ul style="list-style-type: none"><li>❖ <b>JavaScript for navigation</b> 1. Overview of the history and location objects- Building a jump menu- Navigating the user to a specific page based on their input in a form.</li><li>❖ <b>JavaScript for pop-up help</b> Navigation API Crosspagepostbacks Redirects Server.Transfer Server.Execute</li></ul>
<b>Validation and Error Handling</b>	<ul style="list-style-type: none"><li>❖ <b>The Document Object Model</b> The need for validation Validation on the Client and Server ASP.NET validation controls Ensuring correctness in posted data Exception handling in ASP.NET .</li></ul>
<b>Databinding and controls</b>	<ul style="list-style-type: none"><li>❖ <b>Object Oriented Databinding and controls</b> Data source controls Entity Data Source The GridView, FormView, DetailsViewListView,</li></ul>

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<b>C#.Net</b>	<p>DataPager</p> <ul style="list-style-type: none"><li>❖ <b>Arrays</b><ol style="list-style-type: none"><li>1. Enumerated Arrays</li><li>2. Initializing Arrays- Appending to an Array/dd&gt;- Reading from Arrays- Looping through Arrays</li><li>3. Associative Arrays</li><li>4. Initializing Associative Arrays- Reading from Associative Arrays- Looping through Associative Arrays- Superglobal Arrays</li><li>5. Two-dimensional Arrays</li><li>6. Reading from Two-dimensional Arrays- Looping through Two-dimensional Arrays</li><li>7. Array Manipulation Functions</li></ol></li><li>❖ <b>HTML and CSS for Object Oriented Asp.net</b><ol style="list-style-type: none"><li>1. Links- Images- Tables- Lists- Forms- Frames- Doctypes- Head, Meta- URLs- Webserver</li><li>2. Syntax- Id &amp; Class- Backgrounds, Text, Fonts- Tables, Border- Outline, Margin, Padding- Positioning, Align- Image, Media Types- Attribute Selectors.</li></ol></li><li>❖ <b>String Manipulation</b><ol style="list-style-type: none"><li>1. Formatting Strings</li><li>2. Concatenation- String Manipulation Functions- Examples of String Functions</li><li>3. Magic Quotes</li><li>4. magic_quotes_gpc- magic_quotes_runtime- Recommendation on Magic Quotes</li></ol></li><li>❖ <b>Reusing Code and Writing Functions</b><ol style="list-style-type: none"><li>1. Including Files</li><li>2. require- require_once- auto_prepend_file and auto_append_file</li><li>3. User Functions</li><li>4. Defining and Calling Functions- Variable Scope- By Reference vs. By Value</li><li>5. Form Processing</li><li>6. Variable Scope</li></ol></li><li>❖ <b>CodeIgniter Framework - Basic DB &amp; Client Side Validation</b><ol style="list-style-type: none"><li>1. Active Record Class:</li><li>2. Insert Data</li><li>3. Client Side Validation</li><li>4. RegExp</li></ol></li><li>❖ <b>Mvc Framework - Server Side Validation &amp; Image Verification</b><ol style="list-style-type: none"><li>1. Server side validation</li></ol></li></ul>
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	<p>❖ DB Relationship &amp; Model Description</p> <ol style="list-style-type: none"><li>1. Active Record Class:</li><li>2. Updating Data</li><li>3. Database relationship</li><li>4. Database Model Description</li></ol>
Web Application	<p>❖ Create website and practical projects</p> <ul style="list-style-type: none"><li>◆ HTTP Request and Response Fundamentals</li><li>◆ Session and cookies concept</li><li>◆ ASP.NET Website by Using the Copy Web Site Utility</li><li>◆ Completing project with Asp.net(C#)</li><li>◆ Publishing a Website</li><li>◆ ASP.Net website by using the MSI Installer</li><li>◆ Using XCOPY Deployment</li><li>◆ Deploying by Using One-Click Publish</li></ul>