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| 10267AC | Introduction to Web Development with Microsoft Visual Studio 2010 | 5 DAYS | SATV : YES |
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Course Description

In this course, students will be introduced to ASP.NET Web development using ASP.NET Web Forms and supporting Microsoft technologies. This course focuses more on server-side programming and data access/management rather than client-side programming. AJAX is covered at a beginner level.

Course Outline

Module 1: Implementing Master Pages and User Controls

- Creating Master Pages
- Adding User Controls to an ASP.NET Web Form

Module 2: Validating User Input

- Overview of User Input Validation
- ASP.NET Validation Controls
- Validating Web Forms

Module 3: Troubleshooting Microsoft ASP.NET Web Applications

- Debugging in ASP.NET
- Tracing in ASP.NET

Module 4: Exploring Microsoft ASP.NET Web Applications in Microsoft Visual Studio 2010

- Introduction to the .NET Framework
- Overview of ASP.NET
- Overview of the Lab Application

Module 5: Creating Web Applications by Using Microsoft Visual Studio 2010 and Microsoft .NET–Based Languages

- Choosing a Programming Language
- Overview of Visual Studio 2010
- Creating a Simple Web Application

Module 6: Creating a Microsoft ASP.NET Web Form

- Creating Web Forms
- Adding and Configuring Server Controls in a Web Form

Module 7: Adding Functionality to a Microsoft ASP.NET Web Form

- Working with Code-Behind Files
- Handling Server Control Events
- Creating Classes and Components by Using Visual Studio 2010
- Handling Page Events

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Module 8: Managing Data in an Microsoft ASP.NET 4.0 Web Application

- Overview of ADO.NET
- Connecting to a Database
- Managing Data

Module 9: Managing Data Access Tasks by Using LINQ

- Overview of LINQ
- Managing XML Data by Using LINQ to XML
- Managing SQL Data by Using LINQ to SQL and LINQ to Entities

Module 10: Managing Data by Using Microsoft ASP.NET Dynamic Data

- Overview of ASP.NET Dynamic Data
- Applying ASP.NET Dynamic Data
- Customizing ASP.NET Dynamic Data Applications

Module 11: Creating a Microsoft ASP.NET Ajax-enabled Web Forms Application

- Introduction to Ajax
- Creating an ASP.NET Ajax Application by Using the Ajax Features for ASP.NET
- Extending an ASP.NET Web Forms Application by Using the Ajax Control Toolkit

Module 12: Consuming Microsoft Windows Communication Foundation Services

- Overview of Windows Communication Foundation Services
- Calling Windows Communication Foundation Services
- Working with WCF Data Services

Module 13: Managing State in Web Applications

- State Management
- ASP.NET Profiles
- ASP.NET Caching

Module 14: Configuring and Deploying a Microsoft ASP.NET Web Application

- Configuring an ASP.NET Web Application
- Deploying an ASP.NET Web Application

Module 15: Securing a Microsoft ASP.NET Web Application

- Overview of Web Application Security
- Declaratively Configuring Authentication and Authorization
- Working Programmatically with Authentication and Authorization

Module 16: Implementing Advanced Technologies Supported by Microsoft Visual Studio 2010 for Web Development

- Working with the ASP.NET MVC 2 Framework
- Working with Silverlight 4