



Head Office – D/306 Tagore Nagar, Raipur
Corporate Office – 2nd Floor, Narayan Ice Factory Campus,
Opposite Maruti Business Park, G.E. Road, Raipur, Chhattisgarh.
Ph – 0771 – 4052617, Mobile 9826916414
E-mail – simplycomputers@gmail.com

Education ▫ Web Designing ▫ Web Hosting ▫ Software Development ▫ Projects

Broad Outline of Course

- 1. Week 1** – Basic Fundamentals (Including Client Server Concepts, RDBMS, Languages and OOPS)
- 2. Week 2** - Introduction to .Net Framework.
- 3. Week 3 to Week 6** – Specific on .Net and SQL Server 2005

Parallel the team will be given assignments which will be part of final project.

Durations

Monday to Friday – 2 hrs class
Sat and Sun – Assignment and Presentation
Min Duration 4 weeks + 2 weeks (Projects)

Fess Structure

For Registration	-	₹ 500/-
Before Training started	-	₹ 3000/-
Total Fees	-	₹ 3500/-

****Fess is non refundable.**

Module Content

[MS SQL Server 2005](#)

[ASP.NET](#)

SQL SERVER 2005 CONTENT

- Introducing SQL Server
 - Major features
 - Limits
 - Editions
 - Installing SQL Server
- Basics of Database Design
 - Normalization
 - Denormalization
 - Tools for Normalization in SQL Server
- Building a Database
 - Introducing SQL Server Management Studio
 - Databases
 - Tables
 - Indexes
 - Relations
 - Using T-SQL to build and alter objects
- T-SQL Basics
 - What is SQL?
 - Reading syntax diagrams
 - Identifiers
 - Datatypes
 - Operators
 - Wild cards
 - Variables
 - Functions
 - Using sqlcmd
- SELECT Queries
 - The SELECT clause
 - The FROM clause
 - The WHERE clause
 - Using Joins
 - ORDER BY
 - GROUP BY and HAVING
 - TOP N and TOP N%
 - OVER
 - Full-text search
- Action Queries
 - DELETE
 - TRUNCATE TABLE
 - UPDATE
 - INSERT
 - SELECT INTO
- Locking and ShowPlan
 - What is Locking?
 - Monitoring and tuning Locking
 - Deadlocks
 - Application Locks

- Tuning Queries with ShowPlan
- Views, Stored Procedures, and Functions
 - Partitioning and Joining Tables with Views
 - Updateable views
 - Indexed Views
 - Information Schema Views
 - Catalog Views
 - Stored Procedures
 - Functions
- Advanced Transact-SQL
 - Transactions
 - Distributed Transactions
 - Rowset Functions
 - Ranking Functions
 - Cursors
 - Structured Error Handling
- XML and SQL Server
 - Using FOR XML
 - Using XQuery
 - HTTP SOAP access to data
- Triggers
 - INSERT triggers
 - DELETE triggers
 - UPDATE triggers
 - INSTEAD OF triggers
 - Recursive triggers
 - DDL triggers
- Replication
 - Replication Models
 - Setting up Replication
 - Snapshot publishing
 - Transaction publishing
 - Merge publications
 - Monitoring replication
 - Heterogeneous replication
- .NET inside of SQL Server
 - Understanding .NET and the CLR
 - Using CLR objects in SQL Server
 - Using the Sql namespace
- SMO and RMO Programming
 - What is SMO?
 - The SMO Object Model
 - Sample SMO tasks
 - Sample RMO tasks
- Analysis Services
 - Understanding Analysis Services
 - Introducing BIDS
 - Creating a Data Cube
 - Exploring a Data Cube
- SQL Server Integration Services



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- SSIS Architecture
 - SSIS Tasks
 - SSIS in action
- Notification Services
 - The Notification Services Architecture
 - Using Notification Services
- Reporting Services
 - The Reporting Services Architecture
 - Building Reports
 - Managing Reporting Services
- Service Broker
 - The Service Broker Architecture
 - Using Service Broker
- Security and SQL Server
 - Security modes and authentication
 - Fixed server roles
 - Database user accounts
 - Permissions
 - Database roles
 - Ownership chains
- Conclusion

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ASP.NET CONTENT

- Language Fundamentals
 - Program structure and statements
 - Data types, identifiers, and operators
 - Comments, XML comments
 - Branching and iteration
 - Working with strings
 - Arrays, structures, and enumerations
 - Classes and namespaces, objects
 - Inheritance, overloading, overriding
 - Interfaces
 - Exceptions
 - Generics, partial types, anonymous methods, and iterators
 - Refactoring code by using refactoring features
 - Using My classes to access system and application resources
- Introduction to ASP.NET
 - A Review of Classic ASP
 - ASP.NET Web Applications
 - Rendering HTML with Server Controls
 - Data Binding in ASP.NET 2.0
- What's New in ASP.NET 2.0
 - New Features in ASP.NET 2.0
 - Designer Features
 - Deployment and Configuration Tools
 - Increasing Productivity



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- Working with Controls
 - Introduction to Web Controls
 - Simple Input Controls
 - HyperLink and Button Controls
 - List Controls
 - Controlling Focus
- Using Rich Server Controls
 - Introduction to Rich Controls
 - The Calendar Control
 - The AdRotator Control
 - The XML Control
- Accessing Data
 - Overview of ADO.NET
 - Connecting to Data
 - Executing Commands
 - Working with Data
 - Choosing an ADO.NET Provider
- Configuration
 - Configuration Overview
 - Using the Web Site Administration Tool
 - Programming Configuration Files
 - Encrypting Configuration Sections
- Data Binding
 - Introducing Data Source Controls
 - Reading and Write Data Using the SqlDataSource Control
 - Displaying and Editing Middle-Tier Data using the ObjectDataSource Control
 - Displaying XML Data Using the XmlDataSource Control
- Validating User Input
 - Overview of ASP.NET Validation Controls
 - Using the Simple Validators
 - Using the Complex Validators
 - Summarizing Results with the Validation Summary Control
 - Separating Validation into Validation Groups
- Themes and Master Pages
 - Creating a Consistent Web Site
 - ASP.NET 2.0 Themes
 - Master Pages
- Site Navigation
 - Providers and Data Sources
 - Creating an XML Site Map File
 - Site Navigation Controls
 - Using the Site Navigation API
 - URL Mapping
 - Security Trimming
- Displaying Data with the GridView Control
 - Introducing the GridView Control
 - Filter Data in the GridView Control
 - Allow Users to Select from a DropDownList in the Grid
 - Add a Hyperlink to the Grid
 - Deleting a Row and Handling Errors



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- Managing State
 - Preserving State in Web Applications
 - Page-Level State
 - Using Cookies to Preserve State
 - ASP.NET Session State
 - Storing Objects in Session State
 - Configuring Session State
 - Setting Up an Out-of-Process State Server
 - Storing Session State in SQL Server
 - Using Cookieless Session IDs
 - Application State
- Managing Users with ASP.NET's Membership Features
 - Introduction to Membership and Roles
 - Using Membership Controls
 - Writing Code to Interact with Membership and Roles
- Debugging ASP.NET Applications
 - Using the Visual Studio Debugging Features
 - Handling Errors and Redirecting Users
 - Debugging Client-Side Script
 - Debugging SQL Server Code
- Tracing
 - Using Page-Level Tracing
 - Using Application-Level Tracing
 - Using Web Events
 - Viewing Information With the Web Development Helper
- Creating New Controls
 - Two Kinds of User-Defined Controls
 - Creating a User Control
 - A More Complex User Control
 - Creating a Custom Control
 - Investigating the StateDropDownList Control
- Improving Performance with Output Caching
 - The Importance of Caching Declarative Page
 - Output Caching
 - Caching Page Fragments
 - Post-Cache Substitution
 - Caching Configuration
- Advanced Caching
 - A Review of Basic ASP.NET Caching
 - Using Code to Implement Caching
 - Caching Data Rather Than Output
 - Using Database Dependencies for Cache Expiration
 - DataSource Control Caching
- Using the DataList and Repeater Controls
 - Overview of List-Bound Controls
 - Creating a Repeater Control
 - Creating a DataList Control
- Creating and Consuming Web Services
 - The Motivation for XML Web Services
 - Creating an XML Web Service with Visual Studio



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- Designing XML Web Services
 - Creating Web Service Consumers
 - Discovering Web Services Using UDDI
- Conclusion

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