

Head Office – D/306 Tagore Nagar, Raipur  
Corporate Office – 2<sup>nd</sup> Floor, Narayan Ice Factory Campus,  
Opposite Maruti Business Park, G.E. Road, Raipur, Chhattisgarh.  
Ph – 0771 – 4052617, Mobile 9826916414  
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## **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](#)

[VB.NET](#)

[ASP.NET](#)



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## 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



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- 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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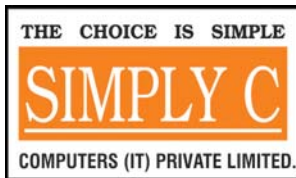
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- SSIS Architecture
- SSIS Tasks
- SSIS in action
- Notification Services
  - The Notification Services Architecture
  - Using Notification Services
- Reporting Services
  - The Reporting Services Architecture
  - Building Reports
  - Managing Reporting 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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## VB.NET CONTENT

- Getting Started: Hello World
  - Thinking about .NET
  - Using Visual Studio 2005
  - Debugging Your Applications
- Variables and Data Types
  - Introducing Variables and Data Types
  - Converting from One Data Type to Another
  - Working with Operators
- Using the .NET Framework
  - Generating Random Numbers
  - Getting Information about the Computer
  - Working with XML
  - Working with File I/O
  - Working with Strings
  - Working with Dates and Times
  - Introducing the My Namespace
- Branching and Flow Control
  - Conditional Branching
  - Repeating Code Blocks
  - Other Control Flow Statements
- Classes and Objects
  - Introducing Objects and Classes
  - Creating Your Own Classes
  - Value Types vs. Reference Types



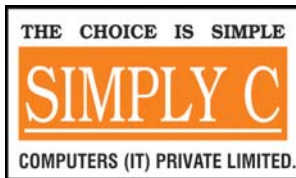
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- Object Lifetime (Disposal and Deterministic Finalization)
  - Instance Members
- Object Properties and Methods
  - Working with Properties
  - Calculating Values for Properties
  - Validating Values in Properties
  - Passing Arguments to Properties
  - Working with Methods
  - Passing Arguments to Methods
  - Returning Arrays
  - Working with Instance Members
- Object-Oriented Techniques
  - Inheritance
  - Polymorphism
  - The Real Base Class: System.Object
  - Overriding Properties and Methods
  - Abstract Classes
  - Implementing and Creating Interfaces
  - Organizing Classes
- Arrays
  - Introducing System.Array
  - Initializing Arrays
  - Iterating Through Arrays
  - Array methods
  - Passing Arrays as Method Parameters
  - Multi-Dimensional Arrays
- Generics
  - Understanding Generics
  - Generic Types and Classes
  - Calling Generic Procedures
  - Generic Constraints
- Collection Classes
  - Collection Interfaces
  - The Generic List
  - Constraints and Lists
  - Sorting Collections
  - Queues and Stacks
  - Hash Tables and Dictionaries
- Exceptions
  - What Happens Without Exception Handling?
  - Adding a Simple Try/Catch Block
  - Using an Exception Object
  - Catching Specific Exceptions
  - Raising Errors
  - Finally: Running Code Unconditionally
  - Handling Unhandled Exceptions
  - Creating Exception Classes
- Delegates and Events
  - Events, Historically
  - Interfaces vs. Delegates



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- Delegates as Type-Safe Function Pointers
- Motivating Events
- Event Handlers as Delegate Instances
  
- 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
- 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



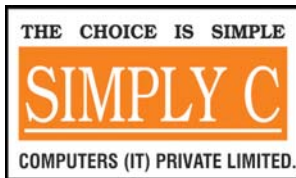
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- Configuration
  - Configuration Overview
  - Using the Web Site Administration Tool
  - Programming Configuration Files
  - Encrypting Configuration Sections
- Data Binding
  - Introducing Data Source Controls
  - Reading and Write Data Using the 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
- 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



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

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