

Course Content for ASP.Net 2010 with C# / SQL Server 2008

In First Month of Project we cover	Overview of the ASP.Net 2010, C#, SQL Server 2008 Technology with Assignments. Parallel to Start the Project Analysis and Documentation. (In Synopsis Data Structure Design, Dfd Design, ER design is must for the students view.)	Preparation of Synopsis of the Project is essential for the students.
Second Month	First 15 Days for the Designing of Forms and Data Base. Last 15 Days for Coding.	SDLC Life-cycle follows.
Third Month	First 15 days for Coding. Last 15 days for Validation Checks, Testing and Implementation.	

1. Introduction -----

Day 1

- a. About Company**
- b. About Professional Project Training**
- c. About tools/technologies used**
- d. About .NET Architecture**
- e. Internet Basics**
- f. Web Programming**
- g. Kind of Application we develop using Framework-Windows Based, Web Based, Console Based and Mobile Based.**

2. Architecture of .Net Framework and explanation.

Day 2-3

(Common Language Runtime(CLR), Common Language Specification(CLS) ,Common Type System(CTS), Base Class Library(BCL), Garbage Collector, Just-in-Time(JIT) Compiler, Managed Code, Un Managed Code, Native Code/Machine Code, Metadata, Assembly, Namespace, ADO and ADO.NET, Microsoft Intermediate Language(MSIL)).

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3. **ASP.Net Basics -----** **Day 4-6**
Introduction to Asp.net
Difference between asp and asp.Net.
Different versions of asp.net technology with their changes.
Client Server Architecture.
4. **Distributed Intranet Architecture(DNA):** **Day 5-6**
i) **One Tier(Single Tier)**
ii) **Two Tier**
iii) **Three Tier**
iv) **N-Tier**
5. **Kind of Application we develop using Framework-Windows Based, Web Based, Console Based and Mobile Based.**
6. **Introduction about Asp.Net Controls:** **Day 7-8**
i) **Web User Control**
ii) **Master Page**
iii) **GridView**
iv) **DetailsView**
v) **DataList**
vi) **ListView**
vii) **FormView**
viii) **Repeater**
ix) **DataPager**
7. **Introduction About Extensible Markup Language(XML), LINQ, Web Services, Ajax & Ajax Toolkit, Crystal Reports.**
8. **State Management** **Day 9-10**
i) **Client Side- HidenField, ViewState, Cookies, QueryString**

ii) **Server Side-Application State, Session**

9. **Page Life Cycle.**

Day 11

10. **Round-Trip and Difference Between Response.Redirect() and Sever.Transfer().**

Assignments through Under Standing Basic Controls and their Properties:

Note:

A test Will be Conducted on above Syllabus which is based on multiple choice theoretical and practical Approach.

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C# ----- 7 Days

- 1. Introduction to C#.**
- 2. Data Types.**
 - Value and Reference Data Types.
- 3. Literals and Tokens.**
- 4. Operators.**
- 5. Program Control Statements-**
 - a). Section Statement (if, if-else, else-if ladder, switch)**
 - b). Iteration Statement (do-while, while, for, foreach)**
 - c). Jump Statement (break, continue, goto, return)**
- 6. Variables and Methods and their Signature.**
- 7. Call By value and call by reference.**
- 8. Class and objects.**
- 9. OOP's Building Blocks:**
- 10. Data Abstraction.**
- 11. Encapsulation.**
- 12. Polymorphism**
- 13. Inheritance**
- 14. Constructor and Destructor.**
- 15. Introduction about Keywords- this, new, base.**
- 16. Understanding Static Keyword (Static variable, static methods and static class).**
- 17. Array, Jagged Array and String.**
- 18. Common Line Arguments.**
- 19. Polymorphism**
 - a) Compile Time (Method OverLoading).**

- b) Run Time (Operaror OverLoading, Method Overriding).
- 20. Access Modifiers (Public, Private, Protected, Internal, Protected Internal).
- 21. Boxing and UnBoxing.
- 22. Inheritance:
 - a) Single Inheritance.
 - b) Multilevel Inheritance.
 - c) Hierarchical Inheritance.
 - d) Multiple Inheritances (Directly Not Possible Use Interface).
- 23. Interface.
- 24. Explain Keywords Sealed, Virtual and Override.
- 25. Use New Keyword to remove Intend which accure in base and derived class.
- 26. Structure and Enumeration.
- 27. Delegate.
- 28. Exception Handling.

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We Provide time to time Assignments During Syllabus of C#.

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MS-SQL Server 2008 ----- 7 Days

1. Introduction of SQL statements.
2. Data types.
3. Introduction about Primary File(.mdf) , Secondary File(.ndf) and Log File(.ldf).
4. Difference Between DDL, DML, DCL, TCL.
5. Altering a Table.
6. Drop a Table.
7. Truncating a Table.
8. Working With SQL Statements-
 - i) Create DataBase.
 - ii) Use DataBase.
 - iii) Rename a DataBase.
 - iv) Creating a Table.
 - v) Working with DML commands in a table.
 - vi) Renaming a table.
 - vii) Add New Column in Table.
 - viii) Drop Column from Table.
 - ix) Rename a Column Name.
 - x) Change DataType of a Column.
 - xi) Add Identity Function of a Column.
 - xii) Select Distinct Data from a Table using Distinct Keyword.
 - xiii) Selecting Data from Table on following case-
 - a) Selecting All Record and All column from Table.
 - b) Selecting Specific Column and All Record from Table.
 - c) Selecting All Column and Specific record from a Table.

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- d) **Selecting Specific Column and and Specific Record from a Table.**
- 9. **Using Where, Order By, Group By, Having, Between, IN, Not IN to fetch data from tables.**
- 10. **Wild Cards for search pattern (used with like operator)**
- 11. **Difference between delete drop and truncate.**
- 12. **How Create and use Backup and and Database Files.**
- 13. **Explain Keys:**
 - a) **Candidate Key.**
 - b) **Alternate Key.**
 - c) **Primary Key.**
 - d) **Foreign Key.**
 - e) **Composite Key.**
 - f) **Super Key.**
- 14. **Explain Constraints:**
 - a) **Primary**
 - b) **Foreign**
 - c) **Check**
 - d) **Default**
 - e) **Not Null**
 - f) **Unique**
- 15. **Introduction About Index.**
- 16. **String Functions.**
 - a) **Ltrim() and Rtrim()**
 - b) **Replace()**
 - c) **Left()**
 - d) **Right()**
 - e) **Upper()**
 - f) **Lower()**
 - g) **Substring()**

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17. Date Functions:

- a) Getdate()
- b) DatePart()
- c) DateName()
- d) DateAdd()
- e) DateDiff()

18. Join

- a) Inner Join
- b) Self Join
- c) Cross Join
- d) Outer Join
- h) Left Outer Join
- i) Right Outer Join
- j) Full Outer Join

19. Introduction about View.

20. Introduction About Triggers.

21. Stored Procedure.

We Provide time to time Assignments During Syllabus of SQL SERVER.

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ADO.NET:

- 1) ADO.NET Architecture.
- 2) Country State and City Assignments using DropDownBinding Through Database and AutoId Generation Method.
- 3) Library Management System(LMS) using web UserControl.
- 4) LoginPanel Assignment(Including Registration, Forgot Password, ChangePassword, Login and welcome Page).
- 5) Uploading Image using FileUpload Control.
- 6) Captcha and FCK Editor Implementation.

Advance Asp.Net Controls: ----- 5 Days

- 1) Master Page.
- 2) Introduction of HTML and Cascading Style Sheet (CSS).
- 3) Introduction of JavaScript.
- 4) Working With Data Controls:
 - a) GridView.
 - b) DetailsView.
 - c) DataList.
 - d) ListView.
 - e) FormView.
 - f) DataPager.
 - g) Repeater.
- 5) Security Credential:
 - a) Authentication
 - b) Forms Authentication

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- c) Windows Authentication
- 6) Working with SiteMap and WIZARD Control.
- 7) Working With AJAX (ScriptManager, Timer, UpdatePanel, UpdateProgress, Trigger) and AJAX ToolKit.
- 8) Working with Mail Sending in asp.net.
- 9) Working with Crystal Reports.
- 10) Working With Validation Controls-Client Side and Server Side.
- 11) Working With LINQ.
- 12) Working With XML
- 13) Deployment of Application.

Special Notes and Classes for Project help:

- (1). Time to Time e. Soft CONNECT provides useful course materials (Soft Copy), FAQ's related to the Technology.
- (2). Special classes taken by the Highly Experienced Software Professionals of e.Soft.
- (3). Gives Technical and HR Interview tips of the students and also take a Mock interview at the end of the Project.
- (4). Every Saturday we take a feedback of the Students regarding Project Status.

Reference Books for the ASP.Net, SQL Server:

- (1). Black Book.
- (2). Wrox Publications.
- (3). Apress Publication.

Course Duration	Course Fee
Course Fee 3 MONTHS	Rs. 7500
2 MONTHS	Rs. 6500

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