



Microsoft Visual Studio 2010

CONSOLE APPLICATION USING C#.NET 4.0

Module -1:- .Net Architecture 4.0

- Introduction to .Net Framework
- Base Class Library
- Common Type System
- Dynamic Language Runtime (DLR)
- Managed Vs. Unmanaged (Code, Transitions and Types)
- Installing .Net Framework SDK
- Common Language Specification
- Common Language Runtime (CLR)
- MSIL AND JIT Compilers

Module -2:- Advanced .Net Architecture 4.0

- Platform Independency
- Structure of .Net Application (DLL Hell, Metadata, Assembly, Manifest and Modules)
- Process of Compilation
- Basic Compilation using Command Prompt.

Module -3:- Basic review of Conditions/Statements and Error Handling

- Overview of Console Application
- For, For Each, While, Do...While
- Error Handling (try...catch...finally, go to statement)
- If, Else, Switch-Case, go to statement in Switch Case
- Array, Dynamic and Jagged Array
- Error handling using user defined Exception Class.

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Module -4:- New Features in C# 4.0 & Visual Studio 2010

- Dynamic Language Runtime (DLR)
- Named & Optional Parameters
- Dynamic Keyword
- Co-Variance & Contra-Variance

Module -5:- Basic OOPS Functionality

- Classes, Objects and Data types
- Early and Late Binding
- Properties, Method, Structures, Enumerator, Interface, Delegates
- User Defined Attributes
- Base Class and Derived Class
- Inheritance
- Event Handlers

Module -6:- Advanced OOPS functionality

- Encapsulation and Polymorphism
- Constructor and Destructor
- Overloading and Overriding (with virtual, overriding and new keyword)

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Module -7:- Overview of Storage Functionality and Mechanism

- Keywords/Access Modifier (Public, Private, Internal, Protected Internal, Static, Sealed etc.)
- Naming Convention.
- Stack and Heap Allocation
- Boxing and Unboxing
- Constants, Variables and Namespace
- Value type and Reference Type (ref, out keywords)
- 1st Level to 3rd Level Generation

Module -8:- String Handling

- Using String.Format() Method
- Using String Builder Class

WINDOWS APPLICATION USING C#.NET 4.0 (VISUAL STUDIO 2010)

Module – 1:- Introduction to Windows Application

- Introduction to IDE
- Adding Basic Controls to forms at runtime.
- Managing all Controls other than data source Controls, using Designer.
- Overview of Windows Forms
- Separating Designer from Code.
- File Dialog Controls.
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Module – 2:- Overview and Process for getting Data from Database using ADO.Net

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- Basic Review of Database
 - Overview of Sql Connection, Sql Data Adapter, Sql Data Reader, Dataset and Data Table
 - Filling Data into Data source based controls
 - Basic Architecture of Ado.Net
 - Process for Retrieving Data from Database
 - Filtration of Records using Data view.

Module – 3:- Process for Inserting, Updating and Deleting Data from Database using ADO.Net

- Overview of Sql Command, Sql Command Builder.
- Control/Data Validation
- Manipulating Records using Process of 2 tier and 3 tier Architecture.
- Manipulating Records using Basic Controls.
- Manipulating Records using Grid view.
- Inserting Image into Database.

Module – 4:- Basic SQL Server 2005/2008

- Basic overview of SQL Server 2005/2008
- Primary and Foreign Key Relationship.
- Stored Procedure (Output Parameter)
- Overview regarding Normalization.
- Tables, View

Module – 5:- Generics

- Overview of List<t>, Dictionary<key, value>
- User Defined Generics.

Module – 6:- User Controls and Custom Controls

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- User Control (Multiple Controls in Single Control)
 - Custom Control (Single Control based User Control)
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- Events & Delegates**
- Creation of user defined events
 - Using Delegates
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Module – 7:- Overview of XML

- Reading and Writing from XML

Overview of WPF / XAML

- Basic overview of WPF
- Data binding using any single control
- Overview of Basic WPF Controls

Module – 8:- Crystal Reports

- Displaying/Printing Data
- Displaying Filter Data using RecordSelection Formula.
- Display Report using Dataset.

Module – 9:- LINQ

- Filtering Data from an Array
- Filtering Data from DataTable
- Order by, Grouping and many more.
- Lambda Expressions

Module – 10:- Windows Setup and Deployment

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ASP.NET Based Training Program

BASIC HTML

Module – 1 :- HTML

- Overview of HTML
- Display Controls
- Designer Controls (Table, Div etc.)
- Basic HTML Tags
- Input Controls

Module – 2 :- HTML Contd...

- Input Controls
- Designer Controls (Table,Div etc.)
- Basic Overview of Page Designing

Module – 3 :- JavaScript

- Overview of Client Side Scripting
- HTML at Runtime
- Using HTML – Document Object
- Overview of JavaScript
- Using Basic Document Object Model (DOM)
- Using HTML – Window Object

ASP.NET

Module – 1 :- Comparison B/W HTML and Asp.Net

- Pros & Cons of HTML
- Pros & Cons of Asp.Net

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Module – 2 :- Introduction to Asp.Net Architecture

- Process of Asp.Net Execution
- IIS and Asp.Net Engine
- Asp.Net Runtime Environment
- HTTP Handlers
- Asp.Net Page Life Cycle
- Introduction to Client/Server Architecture
- HTTP Request, HTTP Response

Module – 3 :- Basic Controls of Asp.Net

- Basic Display Controls
- IsPostBack and AutoPostBack
- Basic Input Controls

Module – 4 :- Data Access in Asp.Net

- Fetching Record from Database using SqlDataAdapter Class.
- Using Eval() And Bind() Method.
- Displaying Record on GridView, Repeater, DataList Controls
- Cross Page Data Navigation.

Module – 5 :- Data Access in Asp.Net

- Data Manipulation using DetailsView
- Displaying Image using Handler Class.
- Using Template Controls
- Data Access Using 3 Tier Architecture
- Data Manipulation using 3 Tier Arch.
- Data binding using ObjectDataSource.

Module – 6 :- Other Asp.Net Controls

- Using Chart Controls
- Building User Defined Components
- Building Custom Controls in Asp.Net
- Using Query Extender Control
- LINQ in Asp.Net

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Module – 7 :- Validation Controls

- Purpose of Validation Controls
- Client Side and Server Side Validation
- Page.IsValid Property
- Validation Process
- Types of Validation Controls in Asp.Net

Module – 8 :- State Management

- HTTP as Stateless Architecture
- Client Side State Management, its Advantages and Disadvantages
- Session State Management
- Server Side State Management, its Advantages and Disadvantages

Module – 9 :- Caching in Asp.Net

- What is Caching and Why?
- [System.Web.Caching Namespace](#)
- Caching Portion of Asp.Net Pages
- Output Caching
- Caching Asp.Net Pages
- Application Level Caching

Module – 10 :- Master Pages

- How Master Pages Work
- Runtime Behavior of Master Pages
- Nesting of Master Pages
- Advantages of Master Pages
- Master Page and Content Page Path
- Dynamically loading Master Pages
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Module – 11:-Overview of MVC Architecture

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PROJECT IN ASP.NET

Module – 1 :- Project Analysis

- Analyzing Live Project Already on Web
- Selection of Modules.
- Looking for Limitations in our Application

Module – 2:- Project Design

- Creating Data Flow Diagram
- Process of Normalization
- Generating Table Structure
- Designing E-R Diagram
- Process of Denormalization in Asp.Net

Module – 3:- Process of Project Assignment

- Listing Naming Conventions of all Controls
- Form Design & Placement of Controls
- Division of Modules

Module – 4:- Formatting in Asp.Net

- Purpose and Use of Skin File
- Purpose of CSS
- Themes
- Control Level, Page Level, Application Level CSS

Module – 5 :- Asp.Net Security, Membership and Role Management

- Asp.Net Security Model
- Authentication and Authorization in Asp.Net
- Introduction to Code Access Security
- Membership and Role Management

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- Impersonation
- Using Site Maps and Advance Navigation

Module – 6 :- Web Service in Asp.Net

- Asp.Net Web Service Overview
- Synchronous and Asynchronous Communication
- XML Http to Call Web Service via SOAP
- Testing Web Service

Module – 7 :- Introduction to Ajax

- Basic Ajax using XMLHttpRequest
- Ajax using Asp.Net Controls
- Custom Validation Using Ajax

Module – 8 :- Web Setup and Deployment

- Creating Virtual Directory
- Publishing on Server with Database Configuration.

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