

Syllabus of C#.net

Module-I: .Net Framework 4.5 and C# Language Fundamentals

1. DOTNET Framework 4.5

Framework Architecture
Common Language Runtime
Garbage Collection and MSIL

2. Object Oriented Programming with C#

OOPs Concepts
Partial Classes and Partial Methods
Managing Types, Properties, Methods and Parameters
Named Parameters and Optional Parameters
String Handling
Abstract Classes and Interfaces
The Exception Handling in .Net 4.0

3.C# Advanced Features

Delegates and Events
Attributes
Familiarizing Collections and Generics
Language Integrated Query (LINQ)
Object and Collection Initializers
Query Expressions
Navigating the File System
Reading and writing files
Compressing Streams
Forming regular expressions
Encoding
Serializing Objects

Module II: Developing Windows Applications with C#

1. Creating a User Interface Application by Using Standard Controls

Add and configure a Windows Form.
Manage control layout on a Windows Form.
Managing Form-Properties
Add and configure a Windows Forms control.
Create and configure menus.
Create event handlers for Windows Forms and controls
Construct Print documents
Create a customized Print Preview component
Implement Globalization and Localization for a windows application
Implement accessibility Features
Create and configure MDI forms
Drag and Drop functionality in C#
Create a User control in C#
Create a composite windows forms control
Create an extended control by inheriting from existing windows control

2. Designing and Implementing Databases with SQL Server 2008

Introduction to ADO.NET
Creating Tables and Relationships

SQL Fundamentals

Stored Procedures

Introduction to Data bound Controls

Insert, Update, Delete, Select commands in both connected and disconnected environment

3. WPF Application Fundamentals

Windows applications

Navigation applications / XAML Browser Applications

Binding to a WPF element

Transformations- Render, Skew, Rotate

4. Create a Windows Forms Setup application

Create Setup using Click once Technology

Deploy an application using setup project