What will I learn?

* Introduction to C#. Why use C#?, Language comparison with C/C++, Java, VB.NET
* Overview of the .NET framework; using Visual Studio.NET
* C# fundamentals: Types, Variables, Constants, Expressions, Statements, Operators, Namespaces
* Classes and Objects: Defining Classes, Creating and Destroying Objects, Passing Parameters, Overloading, Encapsulation.
* Inheritance and Polymorphism: Specialization and Generalization, Inheritance, Polymorphism, Abstract Classes
* Interfaces: Implementation, Accessing Interface Methods, Overriding Interface Implementations
* Handling Exceptions: Throwing and Catching Exceptions, Exception Objects, Custom Exceptions, Rethrowing Exceptions
* Windows Programming: Building Windows Applications, Creating Simple Windows Forms and Windows Forms Applications.
* Text handling applications: Reading and Writing files, string manipulation, file management

By the end of the course, you will be able to:

* Write object-oriented programs in C#
* Use Visual Studio .NET to create GUI Applications (Rapid Application Development)
* Use object-oriented methods to write more robust and more reusable applications
* Gain familiarity with the .NET framework and component-based programming methods.
* Delegates, Events, Asynchronous Method Calls
* Threads
* LINQ
* WPF
* Introduction,  XAML, WPF Application, WPF Layout
* WPF Classic Controls, WPF Window, WPF Pages and Navigation
* Dependency Properties, Routed Events, Resources, Data Binding, Threading Model
* InterOP, Attributes and Reflection
* Web Services & Remoting
* WCF
* Distributed Systems, Basics of WCF
* Contracts, Channels & Bindings
* Behaviours and Hosting

Recommended Reading

* Pro C# 2008 and the .NET 3.5 Platform, Andrew Troelsen (2007) - Apress
* Programming .NET 3.5, Jesse Liberty (2008) - O'Reilly
* Essential Windows Communication Foundation (WCF): For .NET Framework 3.5, 2008, Microsoft .Net Development, Steve Resnick, Richard Crane, and Chris Bowen
* Programming WCF Services, Juval Lowry (2007), O'Reilly
* Pro WCF, Amit Bahree et al (2007) - Apress

No prerequisite book required.