Course Content for C#.NET

Total Duration = ~50 Hours with 2 Options
a. 5 Week Days 2 Hours/Day = 5 Weeks
b. Saturdays/ Sundays 3 Hours/Day = 6 Weeks

.NET ENTERPRISE ARCHITECTURE 4.5

- Introduction to the .NET
- CLR, CTS, CLS and MSIL

Basics of C#

- Data Types- Boxing & Unboxing
- Control Statements
- Structures, Enumerations
- Strings

Objects Oriented Programming System

- OOPS Concepts
  a) Encapsulation
  b) Inheritance
  c) Polymorphism-
     Method overloading, Method overriding
     Early binding, Late Binding
     Operator Overloading
  d) Class and Object
- Constructors and Destructors
- Optional parameters
- Covariant generic type parameters
- Abstract Classes, abstract Methods
- Interfaces
- Multiple Inheritance
- Generic classes
- Static classes and static constructors
- Extension Methods
- Partial Classes & Methods

Exception Handling

- System Defined Exceptions
- Custom Exceptions
- Try, Catch, Finally
- Throwing exceptions

Windows Application Development

- Windows forms and Controls
- Creating Menus
- Toolbars, Image List

- Tree view, List view

ADO.NET

- ADO.NET Common Objects
- Datagrid View- Implement CRUD Operations
- Creating Relations and Transactions
- LINQ and Stored Procedures

ASSEMBLIES

- Types of Assemblies- Private Assemblies and Shared Assemblies
- Global Assembly Cache (GAG)

Rest of the Stuffs

- Multi threading
- Delegates, Event Handling and User Controls
- Windows Services
- Security in .NET
- Distributed Technologies & .NET Remoting
- File Handling
- Crystal Reports