ASP .NET

Introduction to Web Programming
- ■ Types of Applications
- ■ Using ASP.NET
- ■ Using Visual Studio .NET
- ■ Creating an ASP.NET Web Application Project
- ■ Responding to Events
- ■ Where Does Processing Occur
- ■ Namespace Fundamentals
- ■ Namespaces in a Web Application
- ■ Maintaining State Information
- ■ Using ASP.NET Controls
- ■ Validating Data on Client and Server Side
- ■ Navigating Between Web Forms
- ■ Accessing Data with ADO.NET
- ■ Using Data Sets on Web Forms
- ■ Processing Transactions in ADO.NET
- ■ Using Exception Handling
- ■ Using Error Pages
- ■ Logging Exceptions
- ■ Using Client-Side Scripts
- ■ Authenticating and Authorizing Users
- ■ Using Windows Authentication
- ■ Using Forms Authentication
- ■ Using Passport Authentication
- ■ Providing Secure Communication
- ■ Building a Web Application
- ■ Deploying a Web Application
- ■ Creating an Installation Program for Deployment
- ■ Deploying Web Applications on a Web Farm or Web G
- ■ Debugging ASP.NET Web Applications
- ■ Creating Web User Controls
- ■ Caching Web Forms
- ■ Caching Parts of Web Forms or Fragment Caching
- ■ Caching Application Data
- ■ Working Extensively with GridView Control
- ■ Cross Page Postback
- ■ Master Pages

C# Programming Language:

- Controls
- Programming Language Basics
- Operators Types and Variables
- Selection Statements
- Loops
- Methods
- Namespaces
- Static Methods
- Classes
- Constructors
- Inheritance
- Polymorphism
- Structs
- Exception Handling
- Attributes
- Enums
- AccessModifiers
- Events and Delegates
- Nullable Types
- Generics
- Types and Type Saftey
- Properties
- Method hidding
- Interfaces
- Abstract Classes
- Collections
- Reflector
- Strong and Weak Naming Assemblies
- Sending emails

SQL Server:

- What is a database
- What is a relational database
- What is a database management system
- Normalization
- Different Types of Joins in SQL Server
- Stored Procedures
- User Defined Functions
- Indexes
- Views

WCF

- What is WCF
- Creating WCF
- Consuming WCF
- Hosting WCF

LINQ

- Linq to Object
- Linq to SQL
- Linq to XML
- Linq to Dataset

ADO .NET:

- What is ADO.NET
- SqlConnection in asp.net
- ConnectionStrings in web.config configuration file
- SqlCommand in ado.net
- Sql injection
- Calling a stored procedure with output parameters
- SqlDataReader in ADO.NET
- SqlDataAdapter in ADO.NET
- DataSet in asp.net
- Caching dataset in asp.net

MVC
- MVC Architecture
- Advantages of MVC
- Creating Application in MVC