

Dot Net Programming with Application Security

Summer Training – Course Curriculum

Visual Basic .Net

- Basics of Visual Basic
- Working with Forms
- Event Handling in Visual Basic
- Datatypes, Statements and Methods
- Conditional Statements and Loops
- Strings and Maths Functions
- Windows File Handling
- Multithreading
- Deploying Windows Applications

ADO.Net

- Introduction to ADO.NET
- ADO.NET Connection and Command Objects
- Data Providers, DataReader Object, DataSet and DataAdapter Objects in ADO.NET
- Establishing SqlConnection and SqlCommand Object
- Reading Data with the SqlDataReader
- Adding Parameters to Commands
- Using Stored Procedures

ASP .Net

- Basics of Website Designing
- Developing ASP.Net Web Applications
- ASP.NET Forms
- Event Handling in ASP.NET
- ASP.NET References: HTML Controls, Web Controls, Validation Controls
- Data Binding in ASP.NET
- .NET DB Connection
- Database Handling in ASP.NET
- ASP.Net as a Server Control
- Handling ASP.Net AJAX Server Control

XML Programming

- Introduction to XML
- Structure and Elements of XML
- XML Validation and Viewing
- Displaying XML Files with CSS
- Using XML with JavaScript

Visual C#

- Programming in C#
- Operators, Types and Variables
- Control Statements: Selections and Loops
- Windows Forms Programming with C#
- Methods and Namespaces
- Introduction to Class
- Object Oriented Programming in C#
- Deploying Windows Applications

Special Security Content:

- Concept of Windows System Programming
- Windows Registry Handling and Manipulation
- Developing System Monitoring Applications
- Security Exception Handling
- Introduction to Socket Programming
- Developing Server/Client Applications
- Counter Measuring Web Application Attacks