

# Introduction to Visual Basic .NET Programming

## Course Description

This is an introductory class that drills down into the internal workings of Visual Studio .NET to help students get the most out of its features, wizards, editors, and project-management capabilities. Students will learn how to maximize their productivity for any project, no matter where they are in the development cycle

## Course Level

Fundamental

## Who should attend?

.NET Developer who want to start programming with Microsoft Visual Basic.NET

## Pre-requisites

Basic understanding of using windows application

## Course Objectives

- Design and set up projects and solutions
- Examine the many wizards designed
- To customize Visual Studio.NET
- Using Visual Basic.NET Syntax
- To use the powerful source-level debugger
- Fundamental of Visual Basic.NET function

## Course Durations

18 Hours

## Course Outline

### 1. Visual Studio IDE

Visual Studio Development Environment  
Visual Studio Tools  
Moving / Resizing the Programming Tools  
Opening a Web Browser in Visual Studio

#### Hand-On Labs

*Starting Visual Studio 2005*

### 2. Writing Your First Program

Programming Steps  
Creating the User Interface  
Setting the Properties  
Writing the Code  
Running Visual Basic Applications  
Building an Executable File

#### Hand-On Labs

*Create Simple Application*

### 3. Working with Toolbox Controls

Using the DateTimePicker Control  
Controls for Gathering Input

#### Hand-On Labs

*Use .NET Control*

### 4. Working with Menus, Toolbars, and Dialog Boxes

Adding Menu Using the MenuStrip  
Adding Access Keys to Menu Commands  
Processing Menu Choices  
Adding Toolbars with the ToolStrip  
Using Dialog Box Controls  
Event Procedures  
Assigning Shortcut Keys to Menus

#### Hand-On Labs

*Use Menu in Application*

### 5. Visual Basic Variables and Formulas

Visual Basic Program Statement  
Using Variables to Store Information  
Using Variables in a Program  
Using a Variable to Store Input  
Using a Variable for Output  
Working with Specific Data Types  
Working with Visual Basic Operators  
Working with Methods  
Establishing Order of Precedence

#### Hand-On Labs

*Create and use Variables*

### 6. Using Decision Structures

Event-Driven Programming  
Using Conditional Expressions  
If&Then Decision Structures  
Detecting Mouse Events

#### Hand-On Labs

*Use Decision Structures*

### 7. Using Loops and Timers

Writing For&Next Loops  
Writing Do Loops  
Timer Control

Using a Timer Object to Set a Time Limit  
Inserting Code Snippets

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*Use loop and Timer*

### 8. Debugging Visual Basic Programs

Finding and Correcting Errors  
Using Debugging Mode  
Tracking Variables Using a Watch Window  
Visualizers  
Using Immediate / Command Windows  
Removing Breakpoints

#### Hand-On Labs

*Debug Application*

### 9. Trapping Errors by Using Structured Error Handling

Processing Errors by Using Try& Catch  
Writing a Disc Drive Error Handler  
More Complex Try&Catch Error Handlers  
Comparing Error Handlers  
The Exit Try Statement

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*Handle Application Error*

### 10. Creating Modules and Procedures

Working with Modules  
Working with Public Variable  
Creating Procedures  
Writing Function Procedures  
Writing Sub Procedures  
Passing Arguments by Value  
Passing Arguments by Reference

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*Create Modules and Procedures*

### 11. Using Arrays to Manage Numeric and String Data

Working with Arrays of Variables  
Preserving Array Contents  
Processing Large Arrays

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*Use .NET Array*

### 12. Working with Collections and the System.Collections Namespace

Working with Object Collections  
Creating Your Own Collection  
Visual Basic for Applications Collections

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*Use .NET Collection*

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