



CENTRAL PIEDMONT COMMUNITY COLLEGE

CORPORATE & CONTINUING EDUCATION

Course Number: DPT7558
Course Name: Visual Basic .NET, Level II
Course Length: 20 Hours

Last Revised On: 1/19/06

Description:

This class will build on the material learned in Programming with Visual Basic .NET (DPT7552). Students will learn to work with such aspects as working with dates and validating input with strings and functions. They will also tackle understanding repetition and multiple forms.

Objectives:

After successful completion of the course, students should be able to:

- Validate input
- Draw graphical objects on a form and print reports using looping statements
- Read and write sequential files
- Use tools to help debug applications

Content:

1. Decision Making
 - Constants
 - Working with dates
 - The DateTimePicker control
 - The CheckBox control
 - ScrollBar Controls
 - The NumericUpDown Control
 - Creating the GroupBox Control Instance
 - Creating Radio Buttons
 - Using Boolean Data
 - Decision making
 - The Select Case
 - Logical Operators

2. Validating Input with Strings and Functions
 - Input validation guidelines
 - String Data
 - Classification functions
 - String manipulation functions and methods
 - The validating event



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- Variable lifetime and scope
 - General procedures
 - Function procedures
 - Sub procedures
 - The MessageBox class
3. Repetition and Multiple Forms
- Adding an existing form to a solution
 - Defining a startup object
 - Creating an object programmatically
 - Executing statements repeatedly
 - Introduction to drawing
 - Defining and painting a shape
 - Drawing a text
 - The Timer Control
 - Displaying, closing and hiding forms
 - Introduction to report design
 - Printing a report with the PrintPreviewDialog Control
 - Calculating Text Placement
 - The StringFormat class
 - Printing the detail lines
4. Processing Text Files with Arrays and Lists
- Processing textual data
 - Using a sequential file
 - Managing lists of data with arrays
 - Parsing Input lines with the Split Method
 - Sorting Arrays
 - Writing to a file
 - Structures
 - The ComboBox and ListBox controls

Prerequisites:

- Visual Basic .NET, Level I

Method of Instruction:

- Lecture, demonstration, and hands-on use



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Evaluation:

- Exam: NO
- Demonstration of Skills: Yes
- Class Participation: Yes