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Course: 404: .NET Programming

Course Content	Unit 1. Overview of Microsoft .NET Framework
	<ul style="list-style-type: none">1.1. The .NET Framework<ul style="list-style-type: none">1.1.1. Managed Code MSIL, Metadata and JIT Compilation - Automatic Memory Management.1.2. The Common Language Runtime (CLR)1.3. The .NET Framework class Library <p>Unit 2. Programming in Visual basic .net</p> <ul style="list-style-type: none">2.1. IDE2.2. Variables and Data Types<ul style="list-style-type: none">2.2.1. Boxing and Unboxing2.2.2. Enumerations2.2.3. Data Type Conversion Functions2.2.4. Statements2.3. String & Date Functions and Methods2.4. Modules, Procedures and Functions<ul style="list-style-type: none">2.4.1. Passing variable number of arguments2.4.2. Optional arguments2.5. Using Arrays and Collections2.6. Control Flow Statements<ul style="list-style-type: none">2.6.1. Conditional Statements2.6.2. Loop Statements2.6.3. MsgBox and InputBox <p>Unit 3. Introduction to Windows controls</p> <ul style="list-style-type: none">3.1. Working with Tool Box Controls<ul style="list-style-type: none">3.1.1. Common controls - Label, Text Box, Button, Check Box, Radio Button, Date Time Picker, List Box, Combo box, Picture Box, Rich Text Box, Tree View, Tool Tip, Progress bar, Masked Text box, Notify Icon, Link Label, Checked List box3.1.2. Container Controls3.1.3. Data - Data Set, Data Grid3.1.4. Component - Image list, error provider, Help provider, Timer3.2. Working with Menus and Dialogue Boxes3.3. Exception Handling<ul style="list-style-type: none">3.3.1. Structured Error Handling3.3.2. Unstructured Error Handling



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Unit 4. Object Oriented Programming

4.1. Creating Classes, Object Construction & Destruction

4.1.1. Properties, Methods, Events

4.1.2. Access Specifiers: Public, Private, Protected, Protected Friend

4.1.3. Me, MyBase and MyClass keywords

4.2. Abstraction, Encapsulation & Polymorphism

4.3. Interfaces & Inheritance

Unit 5. Database access using ADO.NET

5.1. Visual Database Tools

5.2. ADO .NET Object Model

5.3. ADO .NET Programming

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