

Plan Szkolenia „.NET w praktyce”

(43 godz. zegar., 6 godz./dzień)

L. p.	Data	Temat szkolenia	Prowadzący/ Uwagi	Czas trwania
1		Język C# - nauka programowania	Maciej Frydler Tomasz Marciniak	25 godzin
		<p>Overview of the Microsoft .NET Platform</p> <ul style="list-style-type: none"> • Overview of the .NET Framework • Benefits of the .NET Framework • The .NET Framework Components • Languages in the .NET Framework <p>Overview of C#</p> <ul style="list-style-type: none"> • Structure of a C# Program • Basic Input/Output Operations • Recommended Practices • Compiling, Running, and Debugging <p>Using Value-Type Variables</p> <ul style="list-style-type: none"> • Common Type System • Naming Variables • Using Built-In Data Types • Creating User-Defined Data Types • Converting Data Types 	<p>Czas trwania 15'</p> <p>Wg. planu</p> <p>Wg. planu</p>	
		<p>Statements and Exceptions</p> <ul style="list-style-type: none"> • Introduction to Statements • Using Selection Statements • Using Iteration Statements • Using Jump Statements • Handling Basic Exceptions • Raising Exceptions <p>Methods and Parameters</p> <ul style="list-style-type: none"> • Using Methods • Using Parameters • Using Overloaded Methods 	<p>Czas trwania 3h</p>	
		<p>Arrays</p> <ul style="list-style-type: none"> • Overview of Arrays • Creating Arrays • Using Arrays 	<p>Wg. planu</p>	



		<p>Essentials of Object-Oriented Programming</p> <ul style="list-style-type: none"> • Classes and Objects • Using Encapsulation • C# and Object Orientation • Defining Object-Oriented Systems 		
		<p>Using Reference-Type Variables</p> <ul style="list-style-type: none"> • Using Reference-Type Variables • Using Common Reference Types • The Object Hierarchy • Namespaces in the .NET Framework • Data Conversions <p>Creating and Destroying Objects</p> <ul style="list-style-type: none"> • Using Constructors • Initializing Data • Objects and Memory • Resource Managements <p>Inheritance in C#</p> <ul style="list-style-type: none"> • Deriving Classes • Implementing Methods • Using Sealed Classes • Using Interfaces • Using Abstract Classes 	Wg. Planu	
		<p>Aggregation, Namespaces, and Advanced Scope</p> <ul style="list-style-type: none"> • Using Internal Classes, Methods, and Data • Using Aggregation • Using Namespaces • Using Modules and Assemblies <p>Operators and Events</p> <ul style="list-style-type: none"> • Introduction to Operators • Operator Overloading • Creating and Using Delegates • Defining and Using Events <p>Properties and Indexers</p> <ul style="list-style-type: none"> • Using Properties • Using Indexers <p>Attributes</p> <ul style="list-style-type: none"> • Overview of Attributes • Defining Custom Attributes • Retrieving Attribute Values 		
3		Tworzenie aplikacji dla Windows w środowisku .NET	Tomasz Marciniak Maciej Frydler	6 godzin



		<p>Introducing Windows Forms</p> <ul style="list-style-type: none"> • Creating a Form • Adding Controls to a Form • Creating an Inherited Form • Organizing Controls on a Form <p>Creating MDI Applications Working with Controls</p> <ul style="list-style-type: none"> • Creating an Event Handler for a Control • Using Windows Forms Controls • Using Dialog Boxes in a Windows Forms Application • Adding Controls at Run Time • Creating Menus • Validating User Input 		
6		<p>Współpraca z bazami danych z wykorzystaniem ADO .NET</p>	<p>Maciej Bogdan Bożena Przyborowska Wojciech Kubera</p>	12 godzin
		<p>Data-Centric Applications and ADO.NET</p> <ul style="list-style-type: none"> • Design of Data-Centric Applications • ADO.NET Architecture • ADO.NET and XML <p>Connecting to Data Sources</p> <ul style="list-style-type: none"> • Choosing a .NET Data Provider • Defining a Connection • Managing a Connection • Handling Connection Exceptions • Connection Pooling 		
		<p>Performing Connected Database Operations</p> <ul style="list-style-type: none"> • Working in a Connected Environment • Building Command Objects • Executing Commands That Return a Single Value • Executing Commands That Return Rows • Executing Commands That Do Not Return Rows • Using Transactions <p>Building DataSets</p> <ul style="list-style-type: none"> • Working in a Disconnected Environment • Building DataSets and DataTables • Binding and Saving a DataSet • Defining Data Relationships • Modifying Data in a DataTable • Sorting and Filtering 		
		<p>Reading and Writing XML with ADO.NET</p> <ul style="list-style-type: none"> • Creating XSD Schemas • Loading Schemas and Data into DataSets • Writing XML from a DataSet 		



	<p>Building DataSets from Existing Data Sources</p> <ul style="list-style-type: none"> • Configuring a DataAdapter to Retrieve Information • Populating a DataSet Using a DataAdapter • Configuring a DataAdapter to Update the Underlying Data Source • Persisting Changes to a Data Source • How to Handle Conflicts 		
SUMA			43 godz

Każdy dzień szkoleń składa się z 6 godzin zegarowych zajęć.

Harmonogram dnia:

- 9:00 – 11:00 zajęcia
- 11:00 - 11:15 przerwa „kawowa”
- 11:15 - 13:15 zajęcia
- 13:15 - 13:45 przerwa obiadowa
- 13:45 - 15:45 zajęcia

Zajęcia odbywać się będą w Laboratorium nr 124 w Budynku IMM. W Laboratorium będzie zorganizowany stolik z kawą i herbatą.

Podany harmonogram może ulec zmianie w obrębie poszczególnych głównych tematów w zależności od zgłaszanych na bieżąco potrzeb uczestników szkolenia.

Koszt szkolenia do 6 uczestników: 8,7 tys zł netto. (8 tys zł bez podręczników)

Termin rozpoczęcia szkolenia: do ustalenia z Zamawiającym

Miejsce szkolenia: siedziba IMM, ul. Krzywickiego 34, Warszawa – Laboratorium Doradczo-Szkoleniowe Technologii Internetowych

Materiały szkoleniowe: jeden komplet podręczników zawierający:

1. MCAD/MCSD Self-Paced Training Kit: Developing Web Applications with Microsoft(r) Visual Basic(r) .NET and Microsoft Visual C#(tm) .NET
2. MCAD/MCSD Self-Paced Training Kit: Microsoft .NET Core Requirements, Exams 70-305/70-315, 70-306/70-316, 70-310/70-320, and 70-300
3. MCAD/MCSD Self-Paced Training Kit: Developing Windows-Based Applications with Microsoft Visual Basic .NET and Microsoft Visual C# .NET, Second Ed
4. MCAD/MCSD Self-Paced Training Kit: Developing XML Web Services and Server Components with Microsoft Visual Basic .NET and Microsoft Visual C# .NET