

# Introduction into Visual Basic for Applications (VBA)

Course code: MSVBA1

In this course, you get the basic skills to develop applications using Visual Basic for Applications (VBA), which is used primarily for the development of macros in MS Office. You will learn how to use basic construction of Visual Basic, define variables, use data types, functions and procedures, and collections, loops, you learn to handle runtime errors application debug program, use their own forms and also understand the basics of object-oriented programming. To attend the course requires basic knowledge of algorithms and programming course at PRG.

Affiliate	Duration	Course price	ITB
Praha	5	22 500 Kč	50
Brno	5	22 500 Kč	50
Bratislava	5	1 000 €	50

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
G 09.12.2024	5	1 000 €	Online	CZ/SK	GOPAS Bratislava online
G 09.12.2024	5	22 500 Kč	Online	CZ/SK	GOPAS Praha online
20.01.2025	5	22 500 Kč	Presence	CZ/SK	GOPAS Praha
17.02.2025	5	1 000 €	Presence	CZ/SK	GOPAS Bratislava prezenčne
10.03.2025	5	22 500 Kč	Presence	CZ/SK	GOPAS Brno
07.04.2025	5	22 500 Kč	Presence	CZ/SK	GOPAS Praha
12.05.2025	5	1 000 €	Online	CZ/SK	GOPAS Bratislava online

The prices are without VAT.

## What we teach you:

- Using variables and data types.
- Create functions and procedures
- Use basic language constructs such as conditions and cycles
- Debug application
- Capture runtime errors
- Create your own forms and use controls
- Much more practical and useful techniques that you use in your applications

## Required skills:

- Knowledge of algorithms and programming at the level of the course PRG.

## Teaching methods:

- Professional explanation with practical samples and examples.

## Teaching materials:

- Powerpoint handouts and module printouts.

## Course syllabus:

Introduction to create applications using Microsoft Visual Basic

- Properties of Microsoft Visual Basic
- Working in a development environment

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# Introduction into Visual Basic for Applications (VBA)

## Working with program code

- Modules
- Using the editor window
- Comments
- Environment settings
- Automatic code completion
- Dialogs

## Variables and Procedures

- Declaring variables
- Data types
- Converting Data Types
- Constants
- Arrays

## Procedures and Functions

- Procedures and Functions
- Parameters of functions and procedures
- Optional parameters
- value parameters and reference parameters
- Featured built-in functions

## Flow control program

- Logical and comparison operators
- If..Then
- Select..Case
- Do..Loop
- For..Next
- Ending loops

## Working with collections

- What's Collection
- Create a collection
- Passage through the collection cycle For..Next
- Passage through the collection cycle For..Each
- Samples collections

## Debugging

- Types of errors
- Watch window
- Immediate window
- Call Stack
- Locals window
- Step through the program

## Catching errors

- Run-time error
- Err object
- Concatenation errors
- Inline Error Handling

## Basics of creating custom forms

- Custom forms
- Basic usage controls

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## Object-oriented programming

- Introduction to Object
- Use the properties, methods and events
- Create and use custom classes
- Create and use custom properties
- Creating and using custom events

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