

Programming and Algorithmization Basics

Course code: PRG

The course is intended for everyone who has not done programming yet or has only minimal experience of programming and who needs to acquire the basic skills necessary to study specific programming languages.

Affiliate	Duration	Course price	ITB
Praha	3	11 400 Kč	30
Brno	3	11 400 Kč	30
Bratislava	3	500 €	30

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
31.03.2025	3	11 400 Kč	Presence	CZ/SK	Gopas Praha Prezenční
07.04.2025	3	500 €	Online	CZ/SK	Gopas Bratislava Online
07.04.2025	3	11 400 Kč	Online	CZ/SK	Gopas Praha Online
05.05.2025	3	11 400 Kč	Presence	CZ/SK	Gopas Brno Prezenční
21.05.2025	3	11 400 Kč	Presence	CZ/SK	Gopas Praha Prezenční
02.06.2025	3	500 €	Presence	CZ/SK	Gopas Bratislava Prezenční

The prices are without VAT.

Who is the course for

The course is intended for everyone who has not done any programming yet and needs to acquire the basic skills necessary to study specific programming languages. The course focuses on general programming principles. Specific examples are given in the Visual Basic environment.

What we teach you

Course participants will learn the fundamentals of algorithmization and programming and will gain experience with creating and implementing development diagrams. You will learn how to use variables and fundamental data types, how to manage programme flow and use logical operators such as AND, OR and XOR.

Required skills

User-level knowledge of Microsoft Windows operating system.

Course Outline

Introducing to algorithmization and programming

- Basic terms
- Programming
- Algorithm
- Compilation
- Debugging

Algorithmization

- Analyzing problem
- Creating flow charts
- Selection

GOPAS Praha

Kodaňská 1441/46
101 00 Praha 10
Tel.: +420 234 064 900-3
info@gopas.cz

GOPAS Brno

Nové sady 996/25
602 00 Brno
Tel.: +420 542 422 111
info@gopas.cz

GOPAS Bratislava

Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 248 282 701-2
info@gopas.sk



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Programming and Algorithmization Basics

- Iteration

Programming languages

- History
- Types of programming languages
- Programming languages Syntax

Event-driven programming

- Introducing to events
- Events procedures

Variables

- Introducing to Variables
- Naming conventions
- Data types
- Declaring Arrays
- Using Arrays
- Sorting Arrays

Expressions and operators

- Arithmetic operators
- Text operators
- Logic operators
- Making expressions

Visual Basic fundamentals

- Introducing to Visual Basic
- Visual Basic Data Types
- Running programs
- Compiling code in Microsoft Visual Studio

Handling Errors

- Syntactic Errors
- Run-time Errors
- Logic Errors

GOPAS Praha

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