

# Go language - programming I

Course code: GO\_INTRO

The course is intended for beginners who want to learn the basics of the modern, fast and highly efficient GO language. In this course you will learn the basic features of the language, the use of functions, data structures and other things in the GO language. If you have no experience with programming, we recommend that you first complete the course Introduction to Algorithmization and Programming [PRG]

Affiliate	Duration	Course price	ITB
Praha	5	20 500 Kč	50
Brno	5	20 500 Kč	50
Bratislava	5	900 €	50

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
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The prices are without VAT.

### For whom the course is intended:

- For beginning developers who want to learn to program in the GO language.

### Required initial knowledge

- Basic knowledge of algorithmization and programming at the level of the PRG course, or experience with programming in another language

### Teaching methods

- Expert interpretation with practical examples, exercises on computers.

### Study materials

- Presentation of the subject matter in printed or online form.

## Syllabus

### Introduction

- History and basic features of the GO language
- Code writing conventions, syntax basics
- Static typing
- Memory management
- Parallel processing
- Installation
- Development environment
- Program "Hello world"

### Data types and variables

- Numeric data types
- Arithmetic operators
- Boolean
- Strings and working with them
- Variables
- Conversion
- Fields, sections and maps

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## Program run control

- If and switch command
- Forum cycles

## Functions

- Definition of functions and procedures
- Passing parameters
- Variable number of parameters
- Multiple return values
- Range of validity of variables
- Defer command
- Functions as variables
- Callbacks and closures

## Program debugging (debugging)

- Program debugging
- Principle of error processing in GO
- Panic and recovering mechanism

## User-defined types, object principles

- Briefly about indicators
- Structures
- Methods
- Interfaces

## Parallel processing, goroutines

- Processes, threads
- Goroutines
- Communication, synchronization using channels

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