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]

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

The prices are without VAT.

Course terms

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

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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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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