

Python I - introduction to programming

Course code: PYTHON_INTRO

The course is designed for beginners who want to learn the basics of the modern, elegant and highly efficient Python language. In this course, you will learn the basic features of the language, the use of functions and data structures, and the basics of object-oriented programming in Python. If you have no programming experience, we recommend first taking the course Introduction to Algorithmization and Programming [PRG]

Affiliate	Duration	Course price	ITB
Praha	5	23 500 Kč	50
Brno	5	23 500 Kč	50
Bratislava	5	940 €	50

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
 20.04.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Praha
 20.04.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Brno
 11.05.2026	5	940 €	Online	CZ/SK	Online
 11.05.2026	5	23 500 Kč	Online	CZ/SK	Online
01.06.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Praha
15.06.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Brno
 13.07.2026	5	940 €	Presence	CZ/SK	GOPAS Bratislava
 03.08.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Praha
 24.08.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Brno
21.09.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Praha
09.11.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Brno
09.11.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Praha
14.12.2026	5	23 500 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

Annotation:

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For whom the course is intended:

- For beginner developers who want to learn Python programming.

Required entry skills

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

Teaching methods

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140 00 Praha 4 - Krč
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Python I - introduction to programming

- Expert interpretation with practical examples, exercises on computers.

Studying materials

- Printed presentations of the discussed material.

Syllabus

Introduction

- History and basic features of Python
- Installation
- Code writing conventions, syntax basics
- Development environment

Basic data types and variables

- Strings
- Numbers
- Boolean
- Operators for working with strings
- Arithmetic operators
- Comparison operators and logical operators
- Conversion
- Variables
- Annotation of types and hints
- String formatting

Program run control

- The if command
- while and for commands
- Range, break and continue

Function

- Definition of functions and procedures
- Passing parameters
- Standard parameter values
- Scope of variables
- Recursion

Program debugging (debugging) and catching exceptions

- Debugging the program
- Principle of error handling in Python
- Exception mechanism
- Commands try, except, raise, finally

Basics of working with collections

- Set (list)
- Indexing and slices
- Variable vs. immutable types
- Tuples
- Set
- Dictionary
- String operations like a collection
- Introduction to List Comprehension

Built-in Functions

- Overview of basic built-in functions

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- Functions for working with strings
- Mathematical functions
- Conversion function

Modules and Packages

- The principle of modules for creating libraries of functions
- Standard modules
- Beep
- Virtual environment (external)

Basics of PPE

- Basics of PPE
- Creating classes
- Using constructors
- Create an instance

Working with files

- Basics of working with resources (try / finally)
- Basics of working with files files (reading, writing)

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