

# Python - The basics of testing with Python




Course code: PYTHON\_TEST

The course participant will be able to use the Python programming language to automate routine actions and will be able to use and engage modern software development practices based on testing. We'll also talk about optimizations, why some modules are more powerful than Python's built-in features, and a lot more.

Affiliate	Duration	Course price	ITB
Praha	3	13 800 Kč	30
Brno	3	13 800 Kč	30
Bratislava	3	600 €	30

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
 05.03.2025	3	13 800 Kč	Telepresence	CZ/SK	Gopas Praha Prezenční_GTT
 05.03.2025	3	13 800 Kč	Telepresence	CZ/SK	Gopas Brno Prezenční_GTT
 05.03.2025	3	600 €	Telepresence	CZ/SK	Gopas Bratislava Prezenční_GTT

The prices are without VAT.

## For whom the course is intended:

- For beginner developers who want to learn Python programming.

## Required entry skills

- Basic knowledge of the Python language at the level of the PYTHON\_INTRO course

## Teaching methods

- Expert interpretation with practical examples, exercises on computers.

## Studying materials

- Printed presentations of the discussed material.

## Syllabus

Python basics

Test Driven Development (TDD) in Python

- Introduction to TDD
- Development environment settings
- Best practices

Testing REST and SOAP services

- API types and REST/SOAP overview
- Python modules for API testing
- GET REST API
- POST REST API
- PUT REST API
- DELETE REST API

Mocking and faking in Python

- What is Mocking?
- Mock Python library

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# Python - The basics of testing with Python

- Faking object
- Lazy attributes and methods
- Assertions and Inspection

Pipelines, task scheduling and CI/CD

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