

# Python III - development of database applications

Course code: PYTHON\_DB

The course is intended for all experienced Python programmers who want to gain an overview of the possibilities of using this language for accessing data sources. In this course you will learn how to use both SQL and NOSQL databases as well as to use object-relational mapper SQLAlchemy.

| Affiliate  | Duration | Course price | ITB |
|------------|----------|--------------|-----|
| Praha      | 3        | 16 500 Kč    | 30  |
| Brno       | 3        | 16 500 Kč    | 30  |
| Bratislava | 3        | 660 €        | 30  |

The prices are without VAT.

## Course terms

| Date                                                                                         | Duration | Course price | Type         | Course language | Location         |
|----------------------------------------------------------------------------------------------|----------|--------------|--------------|-----------------|------------------|
|  30.03.2026 | 3        | 16 500 Kč    | Telepresence | CZ/SK           | GOPAS Brno       |
|  30.03.2026 | 3        | 16 500 Kč    | Telepresence | CZ/SK           | GOPAS Praha      |
|  30.03.2026 | 3        | 660 €        | Telepresence | CZ/SK           | GOPAS Bratislava |

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## Required skills:

- Basic knowledge of Python at the PYTHON\_ADV level

## Teaching methods:

- Professional explanation with practical samples and examples.

## Teaching materials:

- Powerpoint handouts and module printouts.

## Course syllabus:

Working with file system

- Modules shutil, pathlib and others

Working with databases

- SQL databases (PostgreSQL, MariaDB, Oracle, MS SQL)
- ORM, SQLAlchemy framework
- NoSQL database (Apache Cassandra, MongoDB)

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