

Python101

Basics of Python Language

Description:

The three-day course aims to introduce students to the basics of Python. Its content is to learn basic Python features, data types, variables, basic constructs, exceptions, scripts, OOP, packages and modules.

Students will be able to:

- Install, configure and use Python environment.
- Basics of Python language, data types, construction, work with data, exceptions.
- Write and use scripts, work with files
- OOP.

Course requirements:

Basic work with computer.

This course is intended for:

Developers, users, analysts, managers and IT staff.

Literature:

All participants will get internal OKsystem materials.

Hardware:

Classrooms are equipped with high-performance computers with Internet access and the possibility of wireless connection.

Syllabus:

Module 1: Introduction to Python

- Lesson: Environment, tools, settings
- Lesson: Basic syntax, Python usage
- Lesson: Working with scripts

Module 2: Python language

- Lesson: Structure, variables, data types, comments
- Lesson: Working with numbers, strings and dates
- Lesson: Calculations and Formatting
- Lesson: Control Program Flow

Module 3: Packages and modules

- Lesson: Packages and Modules
- Lesson: Working with packages and modules
- Lesson: Custom modules and packages

Module 4: Errors and exceptions

- Lesson: Exceptions
- Lesson: Types of exceptions, catching and handling exceptions

Module 5: Working with files and scripts

- Lesson: Working with files
- Lesson: Creating and executing scripts
- Lesson: Parameters

Module 6: OOP

- Lesson: Basics of OOP
- Lesson: Classes, attributes, and methods
- Lesson: Magic Methods
- Lesson: Inheritance and multiple inheritance
- Lesson: Statics, functors
- Lesson: Advanced Constructs

Contact us

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