

ITLEO

Python Basics Course

**Online
Beginner**

24 lessons, 2 lessons per week

We study the following technologies:



Jenkins



Selenium



Rest



Git



Python



Continuous Integration

More details about the course:

This course is designed specifically for those who want to take their first steps in the world of programming. Python is one of the simplest and most powerful languages used in web development, automation, Data Science, DevOps, and testing.

In this course, you will gain a deep understanding of the basic concepts of programming and create your own project that will become the first entry on your resume.

Course program

Block 1: Python Basics

- What is Python. Setting up the environment
- Variables, data types, arithmetic and logical operations
- Conditional constructs: if/else
- For, while loops
- Working with collections: list, tuple, set, dict
- Output, formatting, working with user input
- Check work

Block 2: Functions and data processing

- Creating your own functions
- Arguments, default values, returning values
- Error handling: try/except
- Working with files: opening, reading, writing
- JSON, CSV formats
- Datetime, math, os libraries

Block 3: Object-oriented programming (OOP)

- Classes and objects
- Attributes and methods
- Encapsulation, inheritance
- Magic methods
- Practice based on real examples

Block 4: Version control and teamwork

- Git: repository initialization, commits, branches
- Working with GitHub: push/pull, creating a repository
- Introduction to joint development: pull requests

Block 5: Final project

- Development of a console application (choice: To-Do manager, Cost calculator, Text analyzer)
- Working with files, OOP, functional blocks
- Uploading the project to GitHub
- Project presentation

Who is this course suitable for?

- For beginners who have never programmed
- For students and professionals from other industries
- For those who want to move into automation or testing
- For anyone who dreams of a career in IT

What will be the outcome?

- Basic knowledge of Python syntax
- Ability to work with data, write functions and classes
- A full-fledged software project
- Experience in teamwork via Git
- Preparation for further training (Flask, Django, testing)

Career prospects

After the course you will be able to apply for the position:

- **Junior Python Developer or Junior QA Automation Engineer**
- Average salary in Ukraine: \$700 – \$1500

Python is a universal start for Data Science, Back-end development, testing and automation

Course bonuses

- English for IT professionals
- Technical interview mock test
- HR consultation: resume and interview preparation
- Access to the ITLEO alumni community

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