

Python OOP

Course Introduction



SoftUni Team
Technical Trainers



SoftUni



Software University

<https://about.softuni.bg/>

sli.do

#python-advanced

SoftUni Diamond Partners



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Course Objectives

Python OOP Objectives

- Understand the OOP paradigm
- Creating a hierarchy of classes and inheritance
- SOLID Principles
- Working with Iterators and Generators
- Applying the OOP principles
- Component testing
- Working with decorators
- Design Patterns



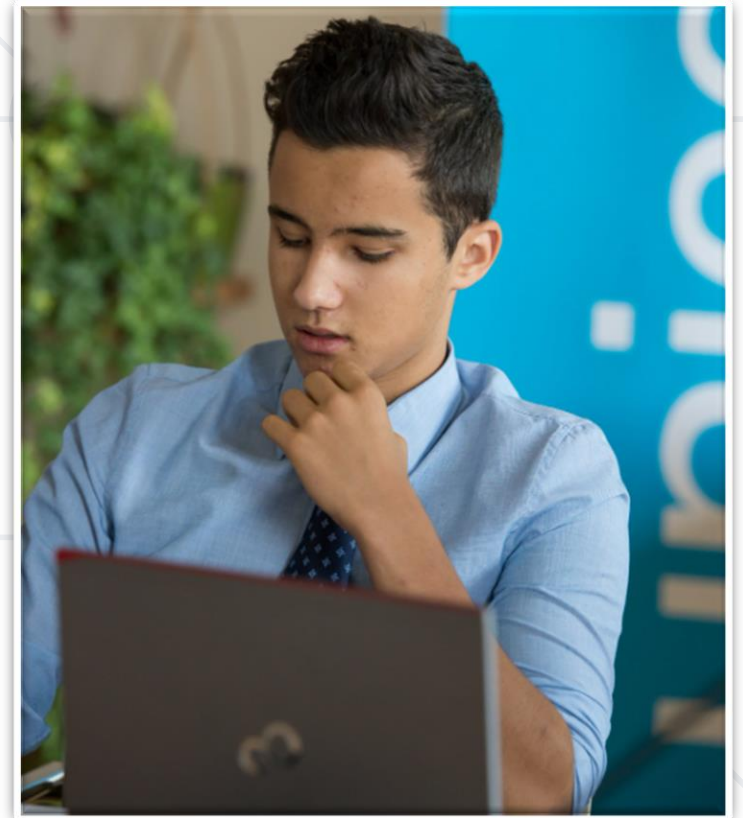


Training Team

- Technical Team Lead at **Nmible**
- Python, Django, Flask, FastAPI
- C#, Angular
- HTML, CSS
- jQuery, Docker



- Full-Stack Developer at **Devpunks**
- Fluent in Python, Django, JS, HTML/CSS, React.js, Postgres
- Lecturer at NBU with C++
- Interested in the AI development





Course Organization

20-Feb-2024

06-Apr-2024

16-Apr-2024

Python OOP

6 weeks * 4 times/week
15 credits

Start: 20-Feb-2024
Final exam: 06-Apr-2024
Theoretical Exam: 06-Apr-2024

Re-Take Exams

Final Exam Retake: 16-Apr-2024
Theoretical Exam Retake: 16-Apr-2024

Practical Programming Exam

- 3 practical problems for 4 hours:
 - Create a simple project that
 - Follows the **OOP principles**
 - **Implements functionality** based on a description
 - Test a provided class
- Automated judge system with **real-time feedback**
 - Upload a zip project to the judge system



Theoretical Exam

- You will have **30 minutes** once you enter
 - Multiple-choice with **1 correct answer**
 - English
- Automated quiz system
- Available online on the day of the practical exam
 - You can submit your answers just **one time**



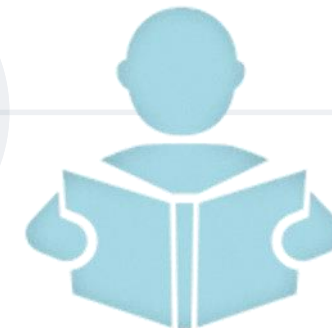




- Your homework is mainly work in class
 - Lesson days → slides + live demos + exercises
 - Exercise days → only exercises
- How to submit your homework?
 - Submitted in the judge system
- Do your homework when it's due
 - Assignments pile up quickly



- The course assignments require searching **in Internet**
 - This is an important part of the learning process
 - Some exercises intentionally have no hints
- Learn to find solutions!
 - Software development includes **everyday searching and learning**
 - No excuses, just **learn to study!**
 - Developers learn new technologies, tools, and languages every day!



Course, Forum and FB Group

- Official web site:

<https://softuni.bg/trainings/4371/python-oop-february-2024>

- Official discussion forum:

<https://softuni.bg/forum/categories/793/python-oop>

- Official Facebook group:

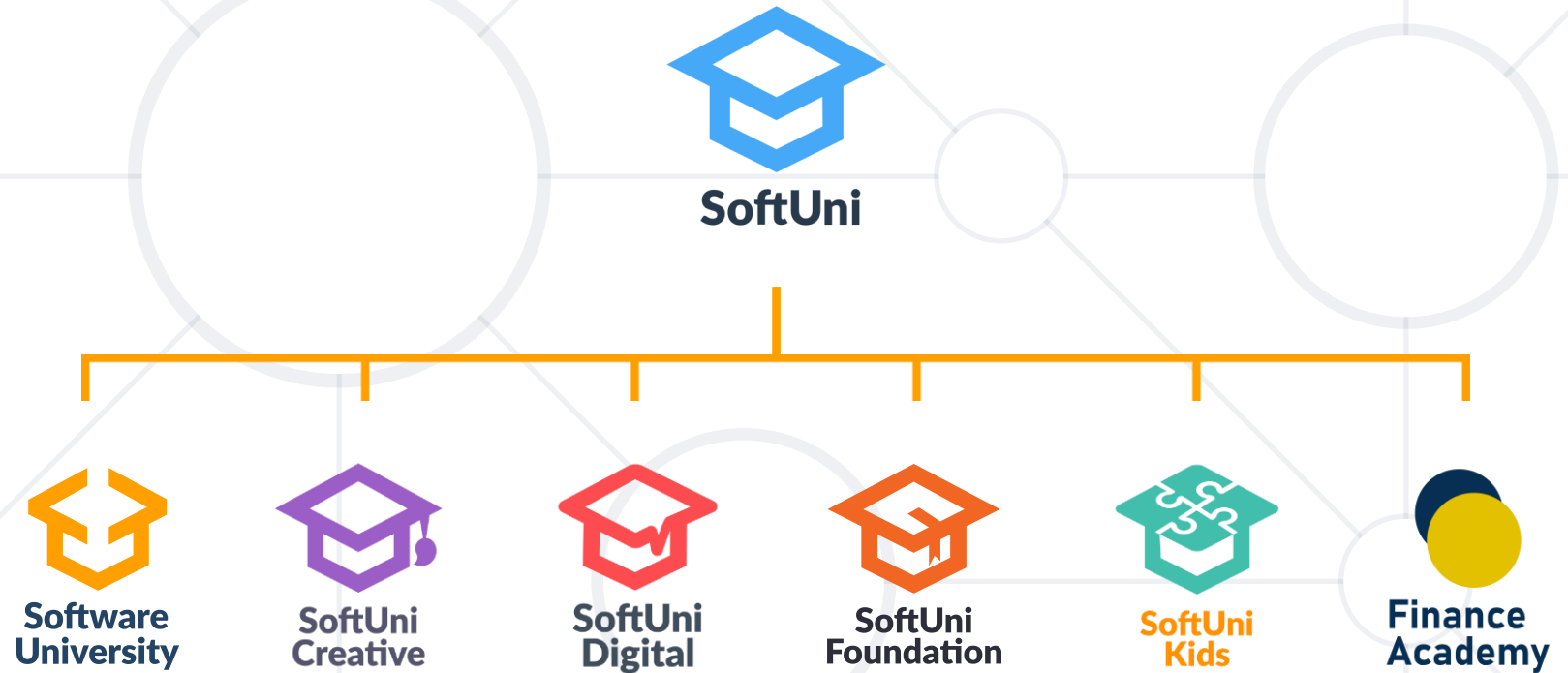
<https://www.facebook.com/groups/PythonAdvancedJanuary2024>

- Python Community Facebook group:

<https://www.facebook.com/groups/SoftUniPythonCommunity>



Questions?



- Software University – High-Quality Education, Profession and Job for Software Developers

- softuni.bg, about.softuni.bg

- Software University Foundation

- softuni.foundation

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- forum.softuni.bg



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