**The final exam program on the discipline “Python programming”**

**of 2022 – 2023 academic year**

Faculty: Information technologies.

Department: Information systems.

Code and name of the educational program: 6B06102 – Information systems.

Name of the discipline: Python programming.

Course: 3.

Teacher: Vladislav Karyukin

The form of the final control of the academic discipline – project.

The project’s execution form – individual

The form of the project’s report – a file with a docx or pdf extension

The exam duration – 1-2 days before the deadline

**EXAM REGULATIONS**

The exam is held on schedule. Therefore, all students must come to the exam in advance.

**The topics list**

1. The development of the Python application for the International organization.
2. The development of the Python application for the Economics organization.
3. The development of the Python application for the Movie company.
4. The development of the Python application for the Online store.
5. The development of the Python application for the Computer store
6. The development of the Python application for the Aircraft manufacturing organization.
7. The development of the Python application for the University.
8. The development of the Python application for the medical organization.

**The literature list**

# Python parallel programming cookbook by Giancarlo Zaccone. Packt publishing, 2015.

# Python for Everybody: Exploring Data in Python 3 by Dr. Charles Russell Severance, Sue Blumenberg, Elliott Hauser, Aimee Andrion, 2016.

# Python Cookbook: Recipes for Mastering Python 3 3rd Edition, Kindle Edition by David Beazley, Brian K. Jones, 2013.

# Advanced Python Development: Using Powerful Language Features in Real-World Applications 1st ed. Edition by Matthew Wilkes, 2021.

# Learning Python 5ed: Powerful Object-Oriented Programming, Mark Lutz, 2013.

# Fluent Python: Clear, Concise, and Effective Programming, Luciano Ramalho, 2015.

# Zed Shaw. Learn Python 3 the Hard Way: A Very Simple Introduction to the Terrifyingly Beautiful World of Computers and Code (Zed Shaw’s Hard Way Series) 1st Edition.

# Eric Matthes. Python Crash Course: A Hands-On, Project-Based Introduction to Programming 1st Edition.

# Paul Barry. Head First Python: A Brain-Friendly Guide 2nd Edition.

# Dan Bader. Python Tricks: A Buffet of Awesome Python Features

**Grade scale:**

|  |  |  |  |
| --- | --- | --- | --- |
| «excellent» - | А | 4,0 | 95-100 |
| А- | 3,67 | 90-94 |
| «good» -  | В+ | 3,33 | 85-89 |
| В | 3,0 | 80-84 |
| В- | 2,67 | 75-79 |
| С+ | 2,33 | 70-74 |
| «satisfied» -  | С | 2,0 | 65-69 |
| С- | 1,67 | 60-64 |
| D+ | 1,33 | 55-59 |
| D- | 1,0 | 50-54 |
| «unsatisfied» -  | FX | 0,5 | 25-49 |
| F | 0 | 0-24 |