***The program of the final control on the discipline***

***«Object-oriented programming»***

***on the 2023/2024 academic year***

*fall semester*

**Faculty** *Information Technologies*

**Department** *Information systems*

**Cipher and the name of the educational program**

**«**6B06102 – Information systems**»**

**Language**: *English*

**Educational level** *Bachelor*

**Course***: 2*

**Lecturer**: *Vladislav Karyukin*

**The form and the platform of the final control** –

*Oral*

**Exam format** – *offline*

**Topics of the exam questions (program)**

1. Fundamentals of C# language
2. Fundamentals of object-oriented programming
3. Concepts of object-oriented programming
4. Inheritance, encapsulation, polymorphism and abstraction
5. Constructors and destructors
6. Types of classes. Sealed and partial classes
7. Collections
8. Windows forms applications
9. Creating elements of Windows forms
10. Exception handling in Windows forms
11. CRUD operations in Windows Forms
12. Working with XML files
13. ListViews and TreeViews in Windows Forms
14. Visualization in Windows Forms
15. Adding images to Windows Forms