***Final exam program for the discipline***

***"OS Security Analysis"***

***for the 2023/2024 academic year***

*fall semester*

**Faculty:** *Information Technologies*

**Department:** *Information Systems*

**Code and name of the educational program**

7M06302 – Information security audit

**Department**: *English*

**The level of education:** *Master's degree*

**Course**: *1*

**Lecturer**: *Karyukin Vladislav Igorevich*

**Form and platform for final control** – *Orally*

**Exam Format** – *offline*

**Topics of exam questions (syllabus)**

1. Description of various methods of protecting operating systems
2. Analysis of existing threats in operating systems
3. Managing system services and processes Windows 10/11
4. Setting up security access accounts for Windows 10/11
5. Windows 10/11 backups
6. Configuring Linux OS Settings on the command line
7. Configuring advanced parameters for accessing the Linux OS system
8. Managing and configuring cloud security
9. Using machine learning models to protect OS applications
10. Development of a web application using machine learning methods