Syllabus of the educational discipline

«Security of Information System»

Specialty	*F6 "Information systems and technologies"*
Educational program	*Information systems and technologies*
Study cycle (Bachelor, Master, PhD)	*Master*
Course status	*Elective*
Language	*English*
Term	*1 year of study, 1 semester*
ECTS credits	*5 credits*
Workload	*Lectures – 14 hours.* *Laboratory – 36 hours.* *Independent work - 100 hours.*
Assessment system	*Test*
Department	*Information systems department, 413 main building, tel. (057) 702-18-31 (ext. 4-37), website of the department: http://www.is.hneu.edu.ua/*
Teaching staff	*Andrii Poliakov, Associate Professor, Candidate of Technical Sciences*
Contacts	*Andrii.Poliakov@m.hneu.edu.ua*
Course schedule	*Lectures: according to the current class schedule* *Laboratory: according to the current class schedule*
Consultations	*At the information systems department, face-to-face, according to the consultation schedule, individual, chat in PNS*

The purpose of the course is to develop knowledge and skills in technologies for creating a secure corporate environment, methods for developing secure corporate software, to develop a model of information security threats to corporate software and information security.

Structural and logical scheme of the course

Prerequisites	Post-requisites
-	Complex training
	Pre-diploma practice

Course content

Content module 1: *Data and system security methods and standards*

- **Topic 1: Identification and access control**
- **Topic 2. Security standards**
- **Topic 3. Definitions and concepts of cryptography**

Content module 2: *Security of the enterprise information system*

- **Topic 4. Communication and network security**
- **Topic 5. Security of Web and mobile application development**
- **Topic 6. Software development security**

Teaching environment (software)

Distance learning tools
Website of personal learning systems: https://pns.hneu.edu.ua.
Library: http://library.hneu.edu.ua
Repository: http://www.repository.hneu.edu.ua.
Auditoriums of the university (Kharkiv, Nauki Ave. 9A).

Multimedia equipment: projector, laptop/computer, Internet access.
Software: Microsoft Windows, Microsoft Office, Virtual Box, Vagrant, OS Linux (Ubuntu 20.04), Docker: specially designed laboratory environment, special security systems, Internet access.

Assessment system

The University uses a 100-point cumulative system for assessing the learning outcomes of students.

Current control is carried out during lectures, laboratory classes and is aimed at checking the level of readiness of the student to perform a specific job and is evaluated by the amount of points scored

The maximum possible amount of points for the current control during the semester for the discipline in the form of credit control is 100 and the minimum possible amount of points is 60.

More information on the system of assessment and grading in the discipline is provided in the curriculum ("technological card") for the course.

Course policies

Teaching of the course is based on the principles of academic integrity.
Violation of academic integrity includes academic plagiarism, fabrication, falsification, cheating, deception, bribery, and biased assessment.
Educational students may be brought to the following academic responsibility for breach of academic integrity: repeated assessment of the corresponding type of learning activity.

More detailed information about competencies, learning outcomes, teaching methods, assessment forms, self-study is given in the Course program