STANDARDS AND TOOLS OF INFORMATION SECURITY

Type of discipline Elective

Level of higher education First (bachelor's)

Language of instructionEnglishNumber of the established ECTS credits8,0Forms of study for which the discipline is taughtFull-time

Learning outcomes. A student who has successfully completed the discipline must: know the basic international standards in the field of information security, understand the basics of information security; demonstrate skills to analyze the level of security of the object and suggest measures to improve this level; to analyze the existing means and measures of organizational and technical protection of information.

The content of the discipline. Information security concept. The concept of comprehensive information protection. Information leakage channels. Methods, means and measures to protect information in the electronic communications system from unauthorized access. Protect information systems from computer viruses and attacks. Models of user behavior in the network. Ethical hacking. Standardization and legal support of information security.

Planned educational activities: the number of classroom hours - not less than 1/3 of the total number of hours planned for the study of the discipline.

Forms (methods) of teaching: lectures (using methods of problem-based learning and visualization); laboratory and practical classes (using trainings, master classes, workshops), independent work (individual tasks).

Forms of assessment of learning outcomes: oral examination, defense of laboratory and practical work, test control.

Type of semester control: pass\fail test.

Training resources:

- 1. Modular learning environment MOODLE. Access to the resource: https://msn.khnu.km.ua.
- 2. Electronic library of the university. Access to the resource: http://lib.khnu.km.ua/asp/php_f/plage_lib.php

Teacher: Candidate of Technical Sciences, Associate Professor Kapustian M. V.