

**Academic discipline:
" Fundamentals of information security "**

Code and name of specialty	1-40 01 01 Information Technology Software
Training course	2
Semester of training	4
Number of class hours:	48
Lectures	32
Seminar classes	-
Practical classes	-
Laboratory classes	16
Form of current assessment (credit/differential credit/exam)	credit
Number of credits	3
Competencies to be formed	To ensure the security of information, taking into account the ways of its presentation and the model of the violator
Summary of the content of the academic discipline:	
<p>Stages of development and tasks of information security. The concept of information threats and their types. Hacker attacks. Phishing attacks. Spam and malware. Classification of computer viruses. Regulatory and legal aspects of information security. Approaches, principles, methods and means of ensuring information security. Structures that ensure information security. Organizational and technical support of computer security. Multilevel information protection. Features of protection of various types of information. Antivirus protection. User authentication systems. Password systems. Public key infrastructure technology. One-time password systems. Biometric characteristics. Cryptographic data protection. Electronic digital signature.</p>	