

# " INNOVATIVE TECHNOLOGIES TO ENSURE COMPUTER SECURITY "

(name of the discipline)

## ANNOTATION

### TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

specialty 7-06-0612-03 system information management

	Form of higher education	
	Full-time	Correspondence
<b>Course</b>	<b>2</b>	<b>2</b>
<b>Semester</b>	<b>3</b>	<b>4</b>
<b>Lectures, hours</b>	<b>34</b>	<b>8</b>
<b>Laboratory hours</b>	<b>34</b>	<b>8</b>
<b>Exam, semester</b>	<b>3</b>	<b>4</b>
<b>Classroom hours in the educational discipline</b>	<b>68</b>	<b>68</b>
<b>Independent work, hours</b>	<b>132</b>	<b>132</b>
<b>Total hours of the discipline / credit units</b>	<b>200/6</b>	

### 1. Brief content of the training discipline

The purpose of the training discipline is to form in the student knowledge, skills, abilities, skills necessary in the use of innovative security technologies for automated information processing systems.

### 2 Learning objectives

As a result of studying the discipline the student should

#### know:

- the role and place of information protection systems in ensuring national security;
- basic models of construction of protected automated systems;
- modern approaches to building information protection systems;
- methods of conceptual design of information security technologies;

#### be able to:

- make a choice of functional structure of information security system;
- justify the principles of organization of technical, software and information security;
- organize works on improvement, modernization and unification of information security technologies;

#### have the skill:

- skills of using criteria for assessing the security of automated information processing systems;
- skills of conducting and analyzing the results of experiments to assess the effectiveness of information security management.

### 3. Formable competences

SC-7 Ensure protection of confidentiality, integrity and availability of data in information systems, SC-9 Use information technologies to ensure quality and secure exchange of data structures in information networks, SC-9 Use information technologies to ensure quality and secure exchange of data structures in information systems.

### 4 Requirements and forms of current and intermediate certification.

LRC, TA, exam.