

**Academic discipline:**  
**" Algebraic methods in information protection "**

<b>Code and name of specialty</b>	1-02 05 01 Mathematics and Informaticsc
<b>Training course</b>	2
<b>Semester of training</b>	4
<b>Number of class hours:</b>	52
<b>Lectures</b>	22
<b>Seminar classes</b>	-
<b>Practical classes</b>	30
<b>Laboratory classes</b>	-
<b>Form of current assessment (credit/differential credit/exam)</b>	credit
<b>Number of credits</b>	3
<b>Competencies to be formed</b>	Be able to apply the theory of algebraic structures in solving applied problems of number theory and computer science. Master the methodology of forming mathematical concepts and teaching the proof of mathematical statements, solving mathematical problems
<b>Summary of the content of the academic discipline:</b>	
The objectives of the discipline are to gain knowledge about algebraic methods of information transformation in order to protect it from illegal users. In the process of processing this information, one has to perform certain arithmetic operations or transformations. Information protection is based on a set of methods and algorithms that allow you to protect information. The algebraic foundations of cryptography are considered.	