

**Academic discipline:  
"Discrete mathematics and mathematical logic"**

<b>Code and name of specialty</b>	1- 02 05 01 Mathematics and computer science
<b>Training course</b>	3
<b>Semester of training</b>	6
<b>Number of class hours:</b>	76
<b>Lectures</b>	34
<b>Seminar classes</b>	-
<b>Practical classes</b>	42
<b>Laboratory classes</b>	-
<b>Form of current assessment (credit/differential credit/exam)</b>	Exam
<b>Number of credits</b>	3
<b>Competencies to be formed</b>	To apply a system of knowledge and skills in the field of computational methods, computer modeling and discrete mathematics, to apply the basic provisions of set theory and statement logic to solve practice-oriented problems
<b>Summary of the content of the academic discipline:</b>	
<p>The academic discipline "Discrete mathematics and mathematical logic" is the mathematical basis of modern information technologies, is considered as a language and mathematical means of building and analyzing models in the field of designing automated control systems, information processing and design of computer hardware and electronic devices. The knowledge and skills acquired during the course are general professional, forming the basic level of engineer's knowledge for mastering other specialized academic disciplines. The course gives the great importance to the theory of sets, relations and graphs, in terms of which most of the tasks related to discrete objects are formulated.</p>	