The name of the academic discipline:

Code and name of specialty	6-05-0612-01 Software Engineering
Training course	1
Semester of training	1
Number of class hours:	50
Lectures	26
Seminar classes	-
Practical classes	24
Laboratory classes	-
Form of current	экзамен
assessment	
(credit/differential	
credit/exam)	
Number of credits	1
Competencies to be formed	Mastering the academic discipline «Discrete
	mathematics» should ensure the formation of
	universal and specialized competencies: to solve
	standard tasks of professional activity based on the
	use of information and communication technologies;
	to apply the basic methods of discrete mathematics,
	as well as other related fields of mathematics for the
	analysis of economic processes and contacts.
Summary of the academic disciplines	

«Discrete mathematics»

Summary of the academic discipline:

The academic discipline «Discrete mathematics» is the mathematical basis of modern information technologies, is considered as a language and mathematical tools for building and analyzing models in the field of designing automated control systems, information processing and designing computer equipment and electronic devices. The knowledge and skills acquired during the course of discrete mathematics are general professional, form the basic level of knowledge for the development of other special academic disciplines. Great importance in the study of this academic discipline is given to the theory of sets, contacts and graphs, in terms of which most problems related to discrete objects are formulated.

The academic discipline introduces students to such discrete objects as sets, combinatorial functions, graphs, finite state machines and algorithms. These objects define the basis of enumerative combinatorics, discrete optimization, cryptography, theory of algorithms and are basic for many applied areas.