MATHEMATICS

COURSE SYLLABUS ABSTRACT of higher education institution speciality

Specialty 1-27 02 01 Transport logistics (by directions) **Specialty direction** 1-27 02 01-01 Transport logistics (road transport)

	,	STUDY MODE		
	full-time	part-time	part-time (shortened program)	
Year	1	1	1	
Semester	1,2	1,2	1,2	
Lectures, hours	84	20	20	
Practical classes (seminars), hours	84	20	18	
Laboratory classes, hours	16	4	4	
In-class test (semester, hours)		1, (2 h)	1, (2 h)	
		2, (2 h)	2, (2 h)	
Exam, semester	1,2	1,2	1,2	
Contact hours	184	48	46	
Independent study, hours	152	288	290	
Total course duration in hours / credit units	336/9	336/9	336/9	

1. Course outline.

The purpose of the educational discipline is: the formation of the student's personality, the development of his intellect and ability for logical and algorithmic thinking; education of a sufficiently high mathematical culture; training in basic mathematical methods necessary for the analysis and modeling of devices, processes and phenomena in the search for optimal solutions for the implementation of scientific and technological progress and the selection of the best ways to implement these solutions, methods for processing and analyzing the results of numerical and field experiments.

- 2. Course learning outcomes. Upon completion of the course, students will be expected to:
- know: methods of mathematical analysis, analytical geometry, linear algebra, solving differential equations; basic concepts and methods of probability theory and mathematical statistics; algorithms for solving linear programming problems;
- be able: solve mathematically formalized problems of linear algebra and analytical geometry; differentiate and integrate functions, solve ordinary differential equations and systems of differential equations; set and solve probabilistic tasks and perform statistical processing of experimental data; solve linear programming problems;
- possess: methods of mathematical analysis, analytical geometry, linear algebra, solving differential equations; methods of probability theory and mathematical statistics; algorithms for solving linear programming problems.

3. Competencies

Generated competen- cies codes	Names of competencies to be formed
BPC-1	Master basic concepts and methods of linear algebra, analytical geometry,
	mathematical analysis, probability theory and mathematical statistics for processing
	and analyzing data and performing engineering, economic and logistic calculations.

4. Requirements and forms of midcourse evaluation and summative assessment

No	Type of valuation funds	Number of sets	
1	Questions for the exam	2	
2	examination cards	2	
3	Individual tasks	6	
4	Control tasks for performance of control works	10	
5	Knowledge Assessment Test (E) Programs	1	