

PHYSICS ANNOTATION

TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty _6-05-1042-01 – Transport logistics

Profileization Regional Transport and Logistics Systems

	Total hours per discipline / credits	
	Form of higher education	Correspondence
Well	2	2
Semester	3	3
Lectures, hours	34	12
Laboratory classes, hours	16	-
Test, semester	3	3
Classroom hours for the academic discipline (including hours at the USR)	50	12
Independent work, hours	58	96
Total hours per discipline / credits	108/3	108/3

1. Brief content of the academic discipline: mechanics, molecular physics and thermodynamics, electrodynamics, harmonic vibrations and waves, optics, quantum and nuclear physics.

2. Learning Results:

- to know the basic laws and theories of classical and modern physical science, as well as the boundaries of their applicability; methods for measuring the physical characteristics of substances and fields; physical basis of substance research methods; principles of experimental and theoretical study of physical phenomena and processes;

- be able to apply the laws of physics to solve applied engineering problems; use basic measuring instruments in the experimental study of physical and technological processes; process and analyze the results of experimental measurements of physical quantities;

- have the skills of using methods for measuring the physical characteristics of substances and fields; the basics of substance research methods; principles of experimental and theoretical study of physical phenomena and processes.

3. Formed competencies: Use basic concepts, laws and methods of mathematics and physics to process data and perform engineering and economic calculations.

4. Requirements and forms of current and intermediate certification:

- current certification: written surveys on the theory of (twice a semester) and reports on laboratory work with their oral protection;

- intermediate certification (test): a written answer to questions that are a selection of questions for the exam, and a brief conversation with the student according to the fundamental laws of the course.