PHYSICS COURSE SYLLABUS ABSTRACT

	Form of higher education		
	Full-time (daytime)	Part-time	Part-time reduced
Course	1, 2	2	1, 2
Semester	2, 3	3, 4	2, 3
Lectures, hours	68	16	16
Practical (seminar) classes, hours	50	12	12
Laboratory classes, hours	50	14	16
Classroom examination, hours		3 semester (2 hours) 4 semester (2 hours)	2 semester (2 hours)
Exam, semester	2, 3	3, 4	1, 2
Class hours for the academic discipline	168	42	46
Independent work, hours	192	318	314
Total hours per academic discipline / credit units	360/10	360/10	360/10

Specialty_1-37 01 06 "Technical operation of vehicles (by directions)"

1. Course outline: The purpose of the discipline is to provide the future engineer with the basis of his theoretical training in various fields of physical science, which allows him to navigate the flow of scientific and technical information and the formation of a materialistic worldview and the scientific method of cognition.

2. Course learning outcomes: As a result of mastering the academic discipline, the student should know: the basic laws and theories of classical and modern physical science, as well as the limits of their applicability; methods for measuring the physical characteristics of substances and fields; physical foundations of methods for studying substances; 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 measuring instruments in the experimental study of physical phenomena; process and analyze the results of experimental measurements of physical quantities; own: methods of physical modeling of technical processes; methods of analysis and solution of applied engineering problems.

3. Competencies: UK-5 Be able to apply basic scientific and technical knowledge to solve theoretical and practical problems in the field of car service.

4. Requirements and forms of midcourse evaluation and summative assessment: Assessment of the level of knowledge of students is carried out by using various means of diagnosing competencies. These are the means of current diagnostics: written test questions on theory (twice a semester), written tests on solving problems, reports on laboratory work with their oral defense. Intermediate attestation (exam) is carried out in two stages. The first pope includes a written answer to questions, which are a selection of questions submitted for the exam, and one problem. The second stage consists of a brief conversation with the student on the fundamental issues of the course.