

**AUTOMATIC CONTROL SYSTEMS FOR ROAD TRANSPORT**  
(course title)

**COURSE SYLLABUS ABSTRACT**  
**of higher education institution speciality**

1-37 01 07 «Vehicle Service»  
(speciality code and name)

	STUDY MODE	
	full-time	part-time (shortened program)
Year	3	3
Semester	6	6
Lectures, hours	34	8
Practical classes (seminars), hours	16	4
Laboratory classes, hours	16	4
Pass/fail, semester	6	6
Contact hours	66	16
Independent study, hours	42	92
Total course duration in hours / credit units	108/3	

1. Course outline

Mastering by students of methods and means of existing systems of automatic regulation and control in road transport, the design of elements and systems used in road transport enterprises, as well as on cars, methods and means of calculating automatic control systems.

2. Course learning outcomes

Upon completion of the course, students will be expected to know:

- elements of automation;
- systems of automatic regulation and control;
- means of automation, microprocessor systems for diagnosing in road transport;
- tendencies and directions of development of automation.

be able to:

-use automation devices in road transport for the purposes of maintenance, repair, design more advanced automatic control systems, produce methods for their calculation, diagnose machine units and reduce emissions of harmful substances into the atmosphere.

possess:

- methods and means of calculation of automatic control systems.

3. Competencies

SC-13 Have the ability to use decision-making methods in the selection of rational equipment, the need to modernize existing equipment, and carry out the necessary calculations

4. Requirements and forms of midcourse evaluation and summative assessment.

To diagnose competencies, an oral-written form is used.

To assess the level of knowledge of students, the following diagnostic tools are used:

- offset;
- reports on practical exercises with their oral defense;
- reports on laboratory work with their oral defense.