

Machine testing

ANNOTATION TO THE EDUCATIONAL INSTITUTION'S CURRICULUM

Specialty: 6-05-0715-03 «Cars, tractors, mobile and technological complexes»

Specialization: Computer engineering in construction and road engineering

	The form of higher education educational institutions
	Full-time (full-time)
Course	3
Term	6
Lectures, hours	34
Laboratory classes, hours	34
Offset, semester	6
Classroom hours per academic discipline	68
Independent work, hours	76
Total academic hours/credits	144/4

1. Course outline

The purpose of the discipline is to provide students with a set of knowledge and skills on the methodology of testing automotive equipment.

2. Course learning outcomes

Upon completion of the course, students will be expected to

- **know:** the classification of tests of self-propelled vehicles; the structure, purpose, principles of operation and requirements for measuring systems used in testing vehicles; test preparation methods; experimental data processing methods; standard methods for bench and road tests of vehicles; test documentation;

- **be able to:** analyze and predict the processes occurring in the mechanisms and systems of a self-propelled vehicle during its testing; process experimental data; compile test programs and methods for both individual components and the machine as a whole; use regulatory documents governing testing; organize tests of self-propelled vehicles;

- **to possess a skill:** knowledge of methods for analyzing the consumer properties of self-propelled vehicles; conducting bench and road tests of cars.

3. Competencies

Apply machine testing methods.

4. Requirements and forms of midcourse evaluation and summative assessment

Oral, written and technical forms, as well as a modular rating system are used to diagnose competencies. The following diagnostic tools are used to assess the level of knowledge of students: reports on laboratory work exercises; electronic tests for conducting control work; offset.