

Methodologies for Motor Vehicle Testing and Conformity Assessment

COURSE SYLLBUS ABSTRACT

Specialty 7-06-0715-01 Transport

Profile: Technical operation of cars

	STUDY MODE	
	full-time	part-time
Year	1	2
Semester	2	4
Lectures, hours	68	10
Practical classes (seminars), hours	50	8
Exam, semester	2	4
Contact hours	118	18
Independent study, hours	170	270
Total course duration in hours / credit units	288/8	

1. Course outline

To develop knowledge and skills in master's degree students that enable them to master, compile and apply methods for testing and assessing the conformity of vehicles, methods for analyzing modern technologies and problems of science in automobile transport.

2. Course learning outcomes

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

- research methods applied at theoretical and practical levels;
- statistical processing of experimental data;
- methods for determining the parameters of compliance of vehicles;
- methods for developing and making decisions.

be able to:

- to develop algorithms for the functioning of vehicle systems;
- to develop a procedure for testing and assessing the conformity of vehicles;
- to synthesize and optimize vehicle testing models;
- to prepare scientific and technical reports on the test results.

to possess a skill:

- methods for assessing the conformity of vehicles;
- methods for determining the conformity parameters of vehicles;
- methods for processing and analyzing the results of experiments and tests.

3. Competencies

Apply testing methods and assessment of compliance with technical requirements of wheeled vehicles and their components.

4. Requirements and forms of midcourse evaluation and summative assessment

Examination – written form;

defense of practical work – oral form.