

Structural and Operational Safety of Motor Vehicles

(course title)

COURSE SYLLABUS ABSTRACT

7-06-0715-01 Transport

(speciality code and name)

Technical operation of cars

(concentration)

	STUDY MODE	
	full-time	part-time
Year	1	2
Semester	1	3
Lectures, hours	34	8
Practical classes (seminars), hours	34	8
Exam, semester	1	3
Contact hours	68	16
Independent study, hours	132	184
Total course duration in hours / credit units	200/6	

1. Course outline

To develop knowledge and skills in master's students on the design, theory and practice of functioning of mechanisms and systems of motor vehicles that affect traffic safety (TS), technological equipment for maintenance and repair of vehicles and their components, and to apply the acquired knowledge in the design of the production and technical base of enterprises of the OAT and the organization of road traffic.

2. Course learning outcomes

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

- the role, status and development prospects of motor transport (MT);
- the main characteristics of motor vehicles (MV);
- the purpose, classification, structure and operating principles of units, systems, mechanisms, components that affect BD;
- operational properties of MV and parameters that affect BD.

be able to:

- apply the acquired knowledge during technical operation (TO) of the vehicle;
- take into account the features of modern designs of elements that affect the DB when organizing the technological processes of TO and TR;
- determine the parameters of the vehicle movement taking into account the DB.

to possess a skill:

- application of methods for collecting and analyzing information on the database during transportation and technical operation of vehicles;
- determination of parameters for safe movement of vehicles.

3. Competencies

Apply knowledge of the theory of functioning of mechanisms and systems of vehicles, technological equipment for carrying out maintenance and repair of vehicles when designing the production and technical base of the OAT.

4. Requirements and forms of midcourse evaluation and summative assessment

Examination – written form; defense of practical work – oral form.