

TECHNICAL MAINTENANCE OF AUTOMOBILES

(course title)

COURSE SYLLABUS ABSTRACT

6-05-0715-07 – Operation of ground transport and technological machines and complexes

(speciality code and name)

«Technical maintenance of automobiles» and «Vehicle service»

(concentration)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	3	4	3
Semester	5, 6	7, 8	5,6
Lectures, hours	68	14	14
Practical classes (seminars), hours	16	4	4
Laboratory classes, hours	68	14	14
In-class test (semester, hours)		8 semester (2 hour)	6 semester (2 hour)
Pass/fail, semester	5	7	5
Exam, semester	6	8	6
Contact hours	152	34	34
Independent study, hours	172	290	290
Total course duration in hours / credit units	290/9		

1. Course outline

The discipline contains consideration of methods of managing the technical condition of the rolling stock of motor transport, the development and implementation of measures to ensure the operability, safety, efficiency and environmental friendliness of vehicles at the level of individual departments and road transport organizations as a whole.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- theoretical foundations of technical operation of cars, strategy and methods of ensuring the operability of vehicles;

- the main prospects and directions of development of motor transport, production and technical base and modern technologies in the automotive industry;

- the system of maintenance and repair of rolling stock of motor transport;

- main failures, malfunctions and their signs, diagnostic parameters and methods of their determination for all systems, components and aggregates of motor vehicles;

- methods of storage of PBX, spare parts, aggregates, operational and repair materials;

- goals, objectives and structure of the technical service of the road transport organization

be able to:

- determine and adjust the modes and standards of technical operation;

- it is correct to take into account the influence of various factors on the technical condition of cars;

- analyze the causes of vehicle failures, choose repair methods and perform it;

to possess a skill:

- determine the causes and locations of failures and malfunctions of units, mechanisms and systems of vehicles;

- determine the scope and program of maintenance and repair work for motor transport organizations and their production units.

3. Competencies

Codes of formed competencies: Apply methods and means of technological equipment to maintain vehicles in a technically sound condition.

4. Requirements and forms of midcourse evaluation and summative assessment

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

- oral-written.

The oral-written form includes:

- protection of individual assignments based on reports according to their own version of classroom practical exercises;

- protection of individual assignments based on laboratory reports.

Assessment and examination in oral or written form.