

DESIGN OF ORGANIZATIONS OF ROAD TRANSPORT
(course title)

COURSE SYLLABUS ABSTRACT
of higher education institution speciality

1-37 01 06 «Technical operation of vehicles»
(speciality code and name)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	4	4,5	3,4
Semester	7, 8	8,9	6,7
Lectures, hours	50	16	18
Practical classes (seminars), hours	40	12	14
In-class test (semester, hours)		8 (2 hours) 9 (2 hours)	6 (2 hours) 7 (2 hours)
Exam, semester	7,8	8,9	6,7
Contact hours	90	32	36
Independent study, hours	110	168	164
Total course duration in hours / credit units		200/6.0	

1. Course outline

The academic discipline is to study the theory and practice of technological design of road transport organizations (hereinafter - POAT) in order to give future specialists the necessary knowledge to solve practical problems of technical re-equipment and further development of the production and technical base of organizations for the maintenance and repair of automotive equipment.

2. Course learning outcomes

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

the procedure for technological design of organizations of road transport of various types; requirements, presented to technological layouts and principles of their layout; indicators characterizing the degree of perfection of technological layouts, and methods for their optimization; the internal infrastructure of the enterprise, which ensures the high-quality implementation of the technological processes of maintenance and repair of vehicles.

be able to: justify the need for designing or reconstructing an enterprise or its elements, operating with the necessary data; make technological calculations and, on the basis of them, design various types of motor transport organizations, including a car service; give an objective assessment of the quality of planning decisions and the technological project as a whole;

possess:

skills of technological design of organizations of road transport of various types; methods for calculating the production program for the performance of work and the number of production workers of a motor transport organization; methods for analyzing the state of the production and technical base of motor transport organizations.

3. Competencies

AC-1 Be able to apply basic scientific and theoretical knowledge to solve theoretical and practical problems. AC-2 Be proficient in systemic and comparative analysis. AC-3 Possess research skills. AC-4 Be able to work independently. AC-5 Be able to generate new ideas (be creative). AC-6 Have an interdisciplinary approach to problem solving. AC-7 Have skills related to the use of technical devices, information management and computer work. AC-8 Have oral and written communication skills. AC-9 Be able to learn, improve their skills throughout their lives. SPC-5 Be capable of criticism and self-criticism. SPC-6 Be able to work in a team. PC-9 Draw up a schedule for the frequency of preventive maintenance and repair, determine the volume of repair work and the need for materials and spare parts. PC-11 Develop technological processes for diagnosing, maintaining and repairing vehicles and their elements for specific conditions. PC-12 Analyze the prospects and directions for the development of the production and technical base and road transport in general. PC-13 Develop technical specifications for the design of technological equipment for diagnostics, maintenance, repair of vehicles or their elements, taking into account the results of research and development work. PC-14 To carry out architectural supervision of the construction or reconstruction of motor transport organizations within the relevant competence. PC-15 Calculate and analyze the modes of operation of rolling stock and structural units of road transport organizations and outline ways to improve them. PC-16 Calculate and analyze the reliability of the operation of motor vehicles in the conditions of updating the structure of the vehicle fleet. PC-17 Apply in practice various measures to ensure the environmental safety of vehicles and organizations. PC-18 Develop measures to involve the waste of motor transport activities in the secondary resources of the regions.

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

Oral: interview during individual and group consultations; submission of an account.

Oral and written: defense of individual tasks performed within the framework of independent work; reports on classroom practical assignments with their oral defense.