DESIGN DEVELOPMENT FOR ROAD TRANSPORT ORGANIZATIONS

COURSE SYLLABUS ABSTRACT

6-05-0715-07 "Operation of ground transport and technological machines and complexes"
(specialty code and name)

Technical Maintenance of Automobiles,
(concentration)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	4	5	4
Semester	7	9	7
Lectures, hours	68	12	12
Practical classes (seminars), hours	50	10	10
Course project, semester	7	9	7
Exam, semester	7	9	7
Contact hours	118	22	22
Independent study, hours	112	208	208
Total course duration in hours / credit units	230/7		

1. Course outline

The theory and practice of technological design development for road transport organizations is the basis for future solution of practical problems of technical re-equipment and effective development of manufacturing and technical facilities of organizations for maintenance and repair of automotive vehicles.

2. Course learning outcomes.

Upon completion of the course, students will be expected to know theory and practices of technological design of manufacturing and technical facilities of enterprises of auto service; to possess knowledge and skills essential for solving practical problems of technical re-equipment and further development of manufacturing and technical facilities of road transport organizations;

know:

- process design procedures for auto service organizations for various types of vehicles:
- requirements for process layouts and principles for their design;
- indicators characterizing the degree of perfection of process layouts and methods for their optimization;
- the enterprise's internal infrastructure, ensuring high-quality implementation of vehicle maintenance and repair processes.

to able to:

- justify the need for designing or reconstructing an organization or its elements, using the necessary data;
- perform process calculations and, based on the results, develop designs for auto service centers of varying capacity and specialization;
- provide an objective assessment of adopted design solutions and the overall technological aspects of the auto service center project.

to possess a skill:

- technological design of various types of motor transport organizations;
- calculation of the production program for work execution and the number of production workers in a motor transport organization;
- analysis of the state of the production and technical base of motor transport organizations.

3. Competencies

Apply technological standards for the design of production units of organizations for the technical operation of the organization's vehicle fleet and auto service center.

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

Oral: defense of a course project.

Oral and written: defense of individual assignments, passing an exam.