DESIGN DEVELOPMENT FOR MOTOR VEHICLE SERVICE ORGANIZATIONS
(course title)

COURSE SYLLABUS ABSTRACT

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

Vehicle service
(concentration)

	STUDY MODE
	full-time
Year	4
Semester	7
Lectures, hours	68
Practical classes (seminars), hours	50
Course project, semester	7
Exam, semester	7
Contact hours	118
Independent study, hours	112
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:

- procedures of technological design of auto service organizations of different types;
- requirements for technological arrangements and principles of their layout: indicators characterizing the degree of perfection of technological arrangements and methods of their optimization;
- internal infrastructure of the enterprise, providing qualitative implementation of technological processes of maintenance and repair of vehicles;

be able to:

- analyze the state of the manufacturing and technical facilities of the auto service organization, identify its significant shortcomings and advantages;
- justify the need to design or reconstruct the organization or its elements, using the necessary data;
- make technological calculations and according to the obtained results to develop projects of auto service organizations of different capacity and specialization;
- give an objective assessment of the adopted design decisions and the technological part of the motor car service project as a whole;

to possess a skill:

- to perform technological design of auto service enterprises;
- to perform computer-aided design and graphic design of projects;
- to perform evaluation of the obtained design solutions of auto service stations for compliance with the requirements for the developed technological process of maintenance and repair of vehicles, fire safety, labor protection, environmental protection.

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.