MECHANIZATION OF MAINTENANCE PROCESSES
(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»
(concentration)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	4	4	4
Semester	7	8	7
Lectures, hours	50	10	10
Practical classes (seminars), hours	34	8	8
Laboratory classes, hours	34	8	8
Course paper, semester	7	8	7
Exam, semester	7	8	7
Guided independent study, hours, type/ semestr	118	26	26
Independent study, hours	112	204	204
Total course duration in hours / credit units	230/7		

1. Course outline

The discipline provides students with knowledge of the design, technical characteristics, operating rules, and fields of application of technological equipment and tooling; develops skills in methods for calculating individual elements of technological equipment and tooling to substantiate their operating parameters; and introduces students to the types of design documentation and the procedures for designing technical equipment facilities for repair operations.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- modern achievements in science and technology in the field of developing technical solutions, as well as the production and operation of technological equipment;
- methods and techniques of engineering analysis of design solutions for technological equipment facilities;
- methods of its design and optimization.

be able to:

- analyze operating modes and working conditions of technological equipment facilities;
- design control systems and components of instruments for the maintenance and repair of automobiles;
- apply a systems approach when conducting patent and information research.

to possess a skill:

- designing the main components of equipment for the maintenance and repair of automobiles;
- analytical calculation of optimal characteristics of technological equipment;
- operation of technological equipment facilities in a motor transport organization.

3. Competencies

Perform calculations and analysis of the designs of technological equipment and tooling for organizations engaged in the technical operation of an automobile fleet and automotive service facilities.

4. Requirements and forms of midcourse evaluation and summative assessment

The following assessment methods are used to assess students' knowledge: - oral and written.

Oral and written assessments include:

- presentation of practical reports;
- presentation of laboratory reports.

Exams are either oral or written.