INTEGRATED MECHANIZATION OF LOADING/UNLOADING, TRANSPORTATION AND WAREHOUSE OPERATIONS

(course title)

COURSE SYLLABUS ABSTRACT

6-05-0715-03 – «Cars, tractors, mobile and technological complexes»

(speciality code and name)

Computer engineering in lifting and transport engineering,

(concentration)

	STUDY MODE
	full-time
Year	4
Semester	7
Lectures, hours	16
Practical classes (seminars), hours	16
Pass/fail, semester	7
Contact hours	32
Independent study, hours	76
Total course duration in hours / credit units	108/3

1. Course outline

The purpose of studying the discipline is to form specialists who are able to reasonably and effectively apply existing and master new technologies in the field of loading and unloading and transport and storage works, providing complex mechanization and automation of work with basic cargoes.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- device, principle of operation and technical and operational characteristics of the main machines used in transport and warehouse complexes;
- cargo characteristics, features of their storage, loading, transportation and unloading;
- methods and technologies of mechanized and automated loading and unloading of goods from various modes of transport;
- methods of designing and evaluating the economic efficiency of mechanized and automated warehouses in transport networks;
- production, warehouse and transport logistics;

be able to:

- to develop technological and space-planning schemes of transport and warehouse complexes;
- to select a set of machines for mechanization of work with various types of goods;
- to optimize the management of material flows in order to reduce costs;

to possess a skill:

- application of modern methods of calculation of transport and warehouse complexes;
- application of information on the main areas of scientific research in the field under study at home and abroad.

3. Competencies

Apply methodological foundations of complex mechanization of loading and unloading and transportation and storage operations

4. Requirements and forms of midcourse evaluation and summative assessment

The form of the current certification: technical – electronic tests and oral – an interview for the protection of practical work.

The form of intermediate certification: technical – Pass/fail.