COMPREHENSIVE CONSTRUCTION MECHANIZATION
(course title)

COURSE SYLLABUS ABSTRACT

6-05-0715-03 – «Cars, tractors, mobile and technological complexes»
(speciality code and name)
Computer engineering in construction and road 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 the discipline is to form specialists who know the basics of theory and modern methods of designing complex mechanization in construction based on a systematic approach, the widespread use of modern methods, models and automation tools to develop informed decisions in the formation of fleets and complexes of machines for various types of work and conditions of their use.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- fundamentals of the theory of complex mechanization and mechanical strength of construction;
- the technology of the machine picking process;

methods of forming optimal sets of cars, complexes and fleets of cars;

- methods of optimal saturation of the work front by means of mechanization;

methods of forecasting and economic assessment of complex mechanization;

be able to:

- optimally form sets, complexes and fleets of machines for various types of work and conditions of their use;
- to predict the effectiveness of complex mechanization of construction;

to possess a skill:

- application of machine acquisition methods;
- formation of optimal structures of parks, complexes and sets of machines.

3. Competencies

Apply methodological foundations of complex mechanization of construction

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.