CONSTRUCTION AND ROAD MACHINERY DIAGNOSTICS

(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	34
Practical (seminar) classes, hours	34
Pass/fail, semester	7
Contact hours	68
Independent study, hours	62
Total course duration in hours / credit units	130/4

1. Course outline

The objective of this academic discipline is to develop specialists who are able to reasonably and effectively apply existing and master new modern methods and means of diagnosing SDM, who know the methods of detecting and searching for defects, assessing the technical condition and predicting the remaining life of the objects being diagnosed.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- fundamentals of technical diagnostics of machine systems;
- methods of measuring diagnostic parameters;
- issues of designing diagnostic tools

be able to:

- select methods and modern diagnostic tools for base machine systems;
- process and analyze diagnostic results;
- predict the remaining service life of machine systems and components.

to possess a skill:

- necessary for performing practical diagnostics of machine systems.

3. Competencies

Apply knowledge of the principles of diagnostics of construction and road machinery.

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:

- individual assignments during laboratory work;

Oral or written exams. The current assessment form is an individual assignment. The midterm assessment form is an exam.