**DIAGNOSTICS OF LIFTING AND TRANSPORT MACHINES**
(course title)

# COURSE SYLLABUS ABSTRACT

6-05-0715-03 Cars, tractors, mobile and technological complexes
(speciality code and name)

Computer engineering in hoisting and transport engineering
(concentration)

| | STUDY MODE |
|---|---|
| | full-time |
| Year | **4** |
| Semester | 7 |
| Lectures, hours | 34 |
| Laboratory classes, hours | 34 |
| Exam, semester | 7 |
| Contact hours | 68 |
| Independent study, hours | 62 |
| Total course duration in hours / credit units | 130/4 |

1. Course outline

The purpose of the discipline is the formation of competencies that ensure the reasonable and effective application of existing and the development of new methods and means of technical diagnostics of lifting and transport vehicles.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

– the main theoretical provisions, methods and means of technical diagnostics of machines and their fields of application;

– current trends in the development of methods and means of technical diagnostics of various elements, assemblies, mechanisms, systems and other structural units of PTM.

be able to:

– to substantiate and select rational methods and means of diagnosing various structural units of PTM;

– to develop the technological process of various methods of diagnosing PTM;

– to substantiate and select rational methods and means of diagnosing various structural units of PTM;

– to develop the technological process of various methods of diagnosing PTM;

– draw conclusions about the technical condition of machines and determine their remaining life based on the results of technical diagnostics;

– use special literature, reference books, standards and other materials on technical diagnostics.

to possess a skill:

–the use of various diagnostic tools for various types of PTM;

–conducting diagnostics of PTMs and their nodes.

3. Competencies

Apply knowledge about the principles of diagnostics of lifting and transport vehicles

4. Requirements and forms of midcourse evaluation and summative assessment

The current certification oral and written.

The form of intermediate certification is an exam.