

LIFTING AND TRANSPORT MACHINERY

(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

Computer engineering in construction and road engineering (concentration)

	Форма получения высшего образования
	Очная (дневная)
Year	3
Semester	5,6
Lectures, hours	84
Laboratory classes, hours	50
Course paper, semester	6
Pass/fail, semester	5
Exam, semester	6
Contact hours	134
Independent study, hours	118
Total course duration in hours / credit units	252/7

1. Course outline

The purpose of the discipline is to form specialists who can reasonably and effectively apply existing and master new knowledge, skills and abilities in the selection of parameters, design, calculation and operation of lifting and transport machines.

2. Course learning outcomes

know:

- professional terminology in the field of lifting and transport machines;
- areas of application of the main types of lifting and transport machines;
- trends in the development of lifting and transport machines;
- standard design and principles of operation of systems and units of lifting, transporting and loading and unloading machines;
- features of calculation of mechanisms and components of lifting and transport machines;
- the basics of choosing the main parameters of lifting and transport machines;
- features of operation of lifting and transport machines;

be able to:

- calculate typical crane mechanisms;
- to justify the choice of load-grabbing devices;
- determine the main parameters of the machines, taking into account the requirements of regulations;
- comply with the basic provisions of safety regulations regulated by the "Rules for the design and safe operation of lifting cranes";

to possess a skill:

- design of lifting and transport vehicles;
- design of lifting and transport machines;
- operation of lifting and transport machines.

3. Competencies

YK-8 Be capable of self-development and improvement in professional activity

CK-6 Apply methodological foundations for the design of lifting and transport machines The technical form of the current control is a test, the oral form of the current control is an interview on the test, exam, defense of the course work.

4. Requirements and forms of midcourse evaluation and summative assessment

The technical form of the current control is a test, the oral form of the current control is an interview on the test, exam, defense of the course work.

The technical form of intermediate certification is a test, the oral form of intermediate certification is an interview for the defense of laboratory and practical work.