

ORGANIZATION OF TRANSPORT SYSTEMS

(course title)

COURSE SYLLABUS ABSTRACT

7-06-0714-02 Innovative technologies in mechanical engineering

Profiling Computer engineering of transport and technological machines

	STUDY MODE	
	full-time	part-time
Year	1	2
Semester	2	3
Lectures, hours	16	4
Laboratory classes, hours	34	8
Exam, semester	2	3
Contacthours	50	12
Independentstudy, hours	166	204
Total course duration in hours / credit units	216/6	

1. Course outline

The purpose of the discipline is to form specialists who can reasonably and effectively apply existing and master new technologies in the field of organization of transport systems based on the study of their structure and patterns of functioning and interaction with railway, road and other modes of transport, complexes of machines and equipment for the formation of progressive technological processes, providing comprehensive mechanization and automation of work with the main cargo.

2. Course learning outcomes

Upon completion of the course, students will be expected to know:

- production, warehouse and transport logistics;
 - device, principle of operation and technical and operational characteristics of the main machines used in transport systems;
 - characteristics of cargoes, features of their storage, loading, transportation and unloading;
 - methods and technologies for mechanized and automated loading and unloading of goods from various modes of transport;
 - methods of designing and evaluating the economic efficiency of transport systems;
- be able to:
- develop technological schemes of transport systems;
 - select a set of machines for automating work with various types of cargo;
 - optimize the management of material flows in order to reduce costs;
- to possess a skill:
- possession of modern methods of analysis and calculation of transport systems;
 - possession of information on the main directions of scientific research in the field of organization of transport systems in the country and abroad.

3. Competencies SK-6 Solve the problems of organizing transport systems

4. Requirements and forms of current and intermediate certification. Current certification: KR - test in the form of a test, Interim certification - exam in the form of a test in Moodle