

# TRANSPORT AND TRANSPORT INFRASTRUCTURE

## COURSE SYLLABUS ABSTRACT

Specialty 6-05-1042-01 «Transport logistics»

Concentration Regional transport and logistics systems

	STUDY MODE	
	Full-time	Part-time (shortened program)
Year	1	1
Semester	2	2
Lectures, hours	34	8
Practical classes, hours	34	6
In-class test, semester (hours)	–	1 (2 hours)
Course paper, semester	2	2
Exam, semester	2	2
Contact hours	68	16
Independent work, hours	76	128
Total hours per academic discipline / credit units	144 / 4	

### 1. Course outline

Characteristics of transport as a branch of material production. Terms and concepts of the transport system. Characteristics of modes of transport in a single transport system. Characteristics of the modern system of distribution. Features of international transportation. Transport indicators. The main directions of development of transport. Innovative modes of transport. Infrastructure is the basis for the functioning of transport systems. Road infrastructure for road transport. Automotive companies. Automotive vehicles. Transport infrastructure of urban passenger transport. Rail transport infrastructure. Rolling stock of railway transport. Water transport infrastructure. Air transport infrastructure. Pipeline transport infrastructure. Infrastructure of transport terminals. Technological foundations of the organization of passenger transportation. Technological foundations of the organization of freight traffic in road transport. Technological foundations of the organization of freight traffic in railway transport.

### 2. Course learning outcomes

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

- the role and importance of transport and transport infrastructure in the economic and social spheres of social development, basic terms and concepts;
  - classification by modes of transport in a single transport system, technical and economic features and areas of application of modes of transport;
  - main elements of transport systems by types of transport: road, rail, water, air, pipeline;
  - the main documents regulating the work of transport, the main indicators of the work of transport
  - main directions of transport development;
  - features of transport infrastructure by type of transport;
  - key performance indicators of transport and transport infrastructure;
  - basic principles of rational interaction between modes of transport, taking into account the characteristics of infrastructure;
- be able to:
- calculate the main indicators of the work of transport, transport enterprises, the use of transport infrastructure, and give them a comparative assessment;
  - perform calculations to assess the rating of modes of transport and analyze their competitiveness;
  - perform calculations in the framework of the design of individual elements of the transport infrastructure;
  - perform calculations on the rational interaction of modes of transport, build contact graphs at points of interaction;
- possess a skill:
- of applying the acquired knowledge and skills in the classroom for the development of special disciplines of the curriculum in subsequent courses, allowing students to form a comprehensive system of professional competencies.

### 3. Competencies

BPK-13. To apply the principles of rational interaction of different modes of transport in a single transport system, taking into account the features of the transport infrastructure and its impact on the conditions for transportation, features of intelligent systems in transport.

### 4. Requirements and forms of midcourse evaluation and summative assessment.

Intermediate attestation is carried out in the form of intermediate progress control (IPC), which is performed in the form of individual tests and individual test tasks. The form of the intermediate certification (IC) is an exam.