

# CARGO SCIENCE

## COURSE SYLLABUS ABSTRACT of higher education institution

6-05-1042-01 «Transport logistics»

(speciality code and name)

Regional transport and logistics systems

(concentration)

|   | STUDY MODE |                          |
|---|------------|--------------------------|
|   | Full-time  | Part-time<br>(shortened) |
| Year  | 1          | 1                        |
| Semester                                      | 1          | 1                        |
| Lectures, hours                               | 34         | 6                        |
| Practical classes, hours                      | 16         | 4                        |
| In-class test, semester (hours)               | –          | 1 (2 hours)              |
| Exam, semester                                | 1          | 1                        |
| Contact hours per academic discipline         | 50         | 12                       |
| Independent study, hours                      | 94         | 132                      |
| Total course duration in hours / credit units | 144 / 4    |                          |

### 1. Course outline

Cargoes and their properties. Tare, packaging and labeling of cargoes. Transportation of cargoes. Placement and storage of cargoes. Container-packing and piece cargoes. Bulk and bulk cargoes. Liquid cargoes. Oversized and heavy cargo. Dangerous cargoes. Ensuring the safety of cargoes.

### 2. Course learning outcomes

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

– the features of the division of various cargoes into classes, their properties and characteristics, and also all issues related to their movement;

– the forms and methods for calculating various indicators of the use and movement of cargoes;  
– the standards and regulations that apply to cargoes;

be able to:

– collect the information necessary to characterize the cargoes;  
– use the methods and techniques for calculating their characteristics;  
– work with standards;  
– carry out calculations related to the peculiarities of storage and transportation of cargoes;  
– identify reserves for increasing the safety of cargoes during various operations;

possess a skill:

– of applying basic scientific and theoretical knowledge to solve analytical problems;  
– to apply research skills;  
– of applying methods for calculating basic indicators;  
– of using information about the latest methods and achievements in the field.

### 3. Competencies.

BPC – 7 Be able to apply the requirements for the transportation of cargoes, their handling during transportation and storage to determine the optimal organizational and technological scheme for the movement of cargoes.

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

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