

# Card of Course

Description of course	
Code of course	-
Name of course	Intermodal transport technology
Version of course	2024/2025
A. Place of the course in system of studies	
Level of education	Intermediate
Form and mode of studies	Full-time studies
Field of studies	Transport
Profile of studies	General academic profile
Specialisation	Main field
Place of teaching of course	Faculty of Transport
Place of realization of course	Department of Transport Systems Engineering and Logistics
Coordinator of course	Roland Jachimowski, dr hab. inż. Department of Transport Systems Engineering and Logistics, Faculty of Transport
B. General characteristic of the course	
Block of courses	Main field
Group of courses	General
Level of course	-
Status of course	Faculty with limited choice
Language of course	English
Nominal semester	-
Academic year	2024/2025
Preliminary requirements	No preliminary requirements
Limit of students	No limit
C. Effects of education and manner of teaching	
Purpose of course	Acquiring knowledge about intermodal transport: transport technologies, intermodal terminals designing
Effects of education	See Table 1.
Form of didactic studies and number of hours per week	
Lecture	2
Exercise type of course	0
Laboratory	0
Project type of course	0
Contents of education	Definitions, intermodal transport systems, intermodal transport infrastructure, road and rail vehicle characteristics, intermodal transport units, intermodal transport units loading technology, intermodal handling equipment, intermodal terminal work organization, basic elements of the intermodal terminal designing.
Methods of evaluation	Written test in the last class. Test consists of open questions. It is possible to improve the test result on an additional date.
Methods of verification of effects of education	See Table 1.
Exam	No
Literature	[1] Nima S. Mohseni, Developing a Tool for Designing a Container Terminal Yard, Master Thesis Project, Delft University of Technology, 2011. [2] Steenken D., Voß S., Stahlbock R., Container terminal operation and operations research – a

	classification and literature review. Spectrum, 2004. [3] West. N. Kawamura, K. Location, Design and Operation of Future Intermodal Rail Yards; a Survey, Transport Research Board, 2005. [4] Thoresen C.A., Port designers handbook, ICE Publishing, 2014.
Website of the course	No.
<b>D. Student's activity</b>	
Number of credits ECTS	3
Number of hours of student's job for achievement of education's effect (description):	15 hours – lectures and tests 30 hours – reading related materials and own work 20 hours – realizing recommended exercises 2 hours – consultations
Number of credits ECTS on the course with direct participation of academic teacher	1
Number of credits ECTS on practical activities on the course	2
<b>E. Additional information</b>	
Notes	
Date of last edition	2024-09-08

**Table 1. General academic profile**

Course's effects		Field effects	Area effect
<b>Knowledge</b>			
Effect:	Student has a basic knowledge about intermodal transport technologies		
Code of effect:	W_01		
Verification:	Written test		
Effect:	Student has a basic knowledge about organization and technology of intermodal transport units handling and storage		
Code of effect:	W_02		
Verification:	Written test		
<b>Skills</b>			
Effect:	Student can design simple intermodal transport units handling process in the intermodal terminal		
Code of effect:	U_01		
Verification:	Written test		
Effect:	Student can design layout of a simple intermodal terminal		
Code of effect:	U_02		
Verification:	Written test		
<b>Social competences</b>			
Effect:	---		
Code of effect:	---		
Verification:	---		