GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Logistics terminals, PG_00064986		
Field of study	Transport and Logistics		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2026/2027
Education level	second-cycle studies	Subject group	Obligatory subject group in the field of study Subject group related to scientific research in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division of Hydromechanics and Ship Design -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Ievgen Medvediev	
	Teachers	dr inż. Ievgen Medvediev	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	30.0	0.0	45

E-learning hours included: 0.0

eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=1837

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	45	8.0	22.0	75

Subject objectives

The aim of the course is to enable the student to acquire competencies in understanding the principles of operation of logistics terminals, as well as the ability to analyze, design, and organize processes taking place in transport terminals. The student gains knowledge that allows for the assessment of terminal efficiency and the application of learned methods and tools to solve practical problems in the field of logistics and transportation.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W04] demonstrates knowledge encompassing selected issues in the field of advanced detailed knowledge, particularly in the scope of methods, techniques and tools specific to Transport and Logistics	The student has detailed knowledge of the methods and techniques of organizing and managing the work of logistics terminals, including transshipment processes, warehousing, handling of cargo units and the use of modern IT tools supporting terminal management.	[SW2] Assessment of knowledge contained in presentation
[K7_W02] demonstrates structured and theory supported knowledge encompassing key issues in the field of Transport and Logistics, enabling modeling and analysis of transport systems and processes	The student explains and describes the structure, functions and principles of operation of logistics terminals as elements of the transport system.	[SW2] Assessment of knowledge contained in presentation
[K7_U04] creatively designs or modifies, either entirely or at least in part, a transport system or process according to a given specification, considering both technical and non-technical aspects, estimating costs and utilizing design techniques appropriate for tasks within the scope of Transport and Logistics	The student designs or modifies the functional layout and operational processes of a logistics terminal (e.g. container, road-rail or intermodal terminal), taking into account technical, economic and organizational aspects and using appropriate design methods specific to logistics.	[SU3] Assessment of ability to use knowledge gained from the subject
[K7_U02] formulates and tests hypotheses concerning problems od transport systems and processes, as well as simple research problems	The student uses learned analytical methods and tools as well as mathematical models to assess the operational efficiency of a logistics terminal, including throughput, operating costs and resource utilization.	[SU2] Assessment of ability to analyse information

Subject contents

Course content – lecture

1. Classification of Combined Transport Terminals

2. Infrastructure of Combined Transport Terminals

3. Transshipment Equipment of Combined Transport Terminals

4. Cargo Handling Processes in Combined Transport Terminals

5. Transshipment Efficiency Measures of Combined Transport Terminals

6. Summary

Course content – project

1. Characterization of a logistics terminal

2. Terminal service processes

3. Transshipment efficiency measures for combined transport terminals

<table>
<tr><td>Prerequisites and co-requisites</td><td>Students taking the course should:

1. Have basic knowledge of: the operation of transport and logistics systems, transport and warehousing infrastructure, the organization and management of logistics processes in an enterprise.

2. Understand the principles of operation of individual modes of transport (road, rail, sea, air) and their importance in the supply chain.

3. Know the basic concepts and methods of: planning and implementing cargo flows, transshipment and warehousing technologies, analysis and evaluation of logistics processes.

4. Have practical skills in: using IT tools supporting logistics processes, performing simple calculations and analyses of throughput and transport and warehousing costs.

5. Demonstrate a willingness to work in a team and solve complex engineering problems in the area of logistics and transport.</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Lectures</td><td>50.0%</td><td>50.0%</td></tr><tr><td>Projekt</td><td>50.0%</td><td>50.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>-</td></tr><tr><td>Supplementary literature</td><td>-</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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