University of Gdańsk

Subject card

Subject name and code	Transport and Logistics Infrastructure , PG_00200406						
Field of study	Logistics and Mobility						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2027/2028			
Education level	Bachelor's 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	2		Language of instruction	English			
Semester of study	4		ECTS credits	3.0			
Learning profile	academic		Assessment form	credit			
Conducting unit	Department of Transport Market -> Faculty of Economics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dariusz Tłoczyński				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
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	30		0.0		45.0	75
Subject objectives	The aim of the course is to familiarize students with the role and structure of transport and logistics infrastructure and its impact on the functioning of supply chains and mobility systems.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[LML3_W07] has knowledge of the economic and financial principles of operation and management of business entities and organizations that require logistics support or provide logistics services, as well as legal, organizational, moral and ethical norms and rules of operation of public institutions	The student is able to analyze the functioning of logistics infrastructure, taking into account economic, financial and regulatory aspects.	[SW4] test/exam - oral or written
[LML3_K03] participates in the preparation of logistics and mobility projects, being able to reconcile legal, economic, ecological, political and social requirements	The student is able to take into account legal, economic, environmental, social and political conditions when planning and evaluating transport and logistics infrastructure projects. In case of difficulties or doubts, the student is ready to use the consultation with the instructor as a form of supporting the process of preparing for the written examination.	[SK4] test/exam - oral or written
[LML3_U14] can appropriately set priorities and plan and organize the tasks involved in their implementation, as well as monitor and evaluate progress	The student is able to plan and organize tasks related to the development or maintenance of logistics and transport infrastructure, setting priorities for activities and monitoring their implementation.	[SU4] test/exam - oral or written
[LML3_W11] knows the general principles of creating and developing forms of individual entrepreneurship, using knowledge of economics, finance, management sciences, logistics and mobility	The student is able to use knowledge of transport and logistics infrastructure to identify opportunities for developing their own business in the logistics and mobility sector.	[SW4] test/exam - oral or written
[LML3_U15] is able to independently supplement and improve the acquired knowledge and economic skills, uses various methods of learning	The student is able to independently expand knowledge in the field of transport and logistics infrastructure, using available sources of information and self-education methods.	[SU4] test/exam - oral or written
[LML3_W05] has a knowledge of a human being as an entity that creates social structures and the principles of their functioning	The student is able to analyse the impact of transport and logistics infrastructure on the functioning of social structures and understands the role of the user as an active participant in mobility systems.	[SW4] test/exam - oral or written
[LML3_W02] has advanced knowledge of different types of entities that require logistics support or provide logistics services	The student is able to characterize different types of entities using logistics infrastructure and analyze their needs in terms of transport and warehousing support.	[SW4] test/exam - oral or written

Subject contents

1. Introduction to transport and logistics infrastructure
2. Elements of transport infrastructure
3. Logistics and storage infrastructure
4. Transport and logistics infrastructure management
5. Spatial planning and infrastructure location
6. Intermodal and multimodal infrastructure
7. Economic aspects of logistics infrastructure
8. Sustainable development of transport infrastructure
9. Digitalization and intelligent infrastructure (Smart Mobility & Logistics)
10. Security and resilience of logistics infrastructure
11. Trends and challenges in the development of transport and logistics infrastructure

Prerequisites and co-requisites

none

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
exam	51.0%	100.0%

Recommended reading

Basic literature	Bovy, P.H.L, Transport, Infrastructure and Logistics,Delft University Press, 2000.
Supplementary literature	Kowalska-Napora Ewa, Infrastruktura logistyczna, Economicus, 2015.
eResources addresses	

Example issues/ example questions/ tasks being completed	Which of the following facilities is NOT directly part of intermodal infrastructure? A. Container terminal B. Logistics center C. Railway bridge D. Cargo airport
Work placement	Not applicable

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