



Subject card

Subject name and code	Infrastructure and Exploitation of Ports and Logistics Terminals, PG_00060656						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2028/2029	
Education level	first-cycle studies	Subject group				Obligatory subject group in the field of study	
Mode of study	Full-time studies	Mode of delivery				at the university	
Year of study	3	Language of instruction				Polish	
Semester of study	5	ECTS credits				5.0	
Learning profile	general academic profile	Assessment form				exam	
Conducting unit	Department of Theory and Ship Design -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Jakub Montewka					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	0.0	0.0	60
	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	60		5.0		60.0	125
Subject objectives	The aim of the course is to familiarize the student with the sea and inland ports subject, i.e. the most important aspects related to the infrastructure, suprastructure and operation of sea and inland ports in Poland and in the world. The student learns about functioning of modern, large sea and inland ports, their construction and the most important port services they provide. This course also aims at showing the economic and organizational conditions of operating ports and to presenting the requirements that modern, large ports in Poland and in the world face.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_K03] understands non-technical aspects and effects of activity in the profession of an engineer and its impact on the environment; is aware of the responsibility for decisions made	The student understands a wide range of aspects related to the profession and its impact on the environment.			[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W05] has established knowledge in the field of design, construction and operation of transport means and systems	The student is able to indicate the main elements related to the process of design, construction and operation of maritime transport systems and the means of transport used.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student is aware of the multi-aspect nature of transport systems.			[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Course content – lecture Construction and equipment of sea and inland ports. Division of sea and inland ports by destination and function. Characteristics of the functioning of modern seaports, seaports in Poland, Europe and the world, competitiveness of seaports. Conditions that must be met by a seaport to be able to function freely, basic requirements for modern seaports. The concept and classification of seaports, the importance of port infrastructure, port infrastructure management. Port infrastructure, the process of loading cargo onto the ship. Port suprastructure. Port networks. Functions of seaports, quality of port services, production features of port services. Transshipment technologies in Polish seaports, terminal equipment in seaports. Size of the <u>seaport measures, port generations.</u>						
Prerequisites and co-requisites	Transportation means, transport infrastructure						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Seminar	50.0%	50.0%
	Test	50.0%	50.0%
Recommended reading	Basic literature	Robert J. McCalla, Brian Slack, Peter Hall, <i>Integrating Seaports and Trade Corridors</i> , 2016 Routledge	
	Supplementary literature	Kap Hwan Kim (Editor), Hans-Otto Günther, <i>Container Terminals and Cargo Systems: Design, Operations Management, and Logistics Control Issues</i> , Springer 2007	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Transshipment technologies in sea ports Characteristics of Ro-Ro handling technology		
Practical activities within the subject	Not applicable		

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