



## Subject card

Subject name and code	The operation of ports and logistic centers, PG_00041683						
Field of study	Transport and Logistics, Transport and Logistics						
Date of commencement of studies	October 2020	Academic year of realisation of subject				2022/2023	
Education level	first-cycle studies	Subject group				Optional subject group 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	3	Language of instruction				Polish	
Semester of study	6	ECTS credits				4.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Zakład Wyposażenia Okrętu -> Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Kazimierz Czapczyk				
	Teachers		dr inż. Kazimierz Czapczyk mgr inż. Izabela Szwoch				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	30.0	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		35.0	100	
Subject objectives	Introduction to the issues of setting up, construction, functioning, exploitation of ports and logistics centers, as well as certification, taking into account practical formal, legal and technical and operational aspects.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport		The student has knowledge of the infrastructure and superstructure of ports, sea and land terminals and logistics centers, in particular the basics of design, construction and maintenance. He knows the general characteristics of shipping services and the principles of operation of rescue and firefighting services.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge	
	[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of means and systems of transport		The student knows the basic elements of infrastructure and superstructure of ports, terminals and logistic centers. In addition, the student has theoretical knowledge in the field of international legal regulations concerning the operation of ports and traffic engineering.			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment	
	[K6_W08] has knowledge regarding the principles of sustainable development		The student knows the costs involved in the operation of the port and its reloading terminal and logistics centers. He has general knowledge of the trends in the development of water and land transport, and knows safety and quality management systems.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge	

Subject contents	<p>Formal and legal basis for the operation of ports, terminals and logistic centers. Basic information in terms of the needs of the means of transport. What is a port, a terminal and a logistics center as transport links and a place where various modes of transport are connected, as well as the sea in general with the land. Cargo transportation in liner and non-linear shipping. Time charter, transport vessel inspections and necessary documents. Booking contract, transport contract, line conditions, Bill of lading (characteristics, meaning, types, basic clauses), guarantee letter, sea waybill, charter for free places, load list, helmsman's note, charter contract, charter for a trip and its types, types inspection. Documents: ID, classification, security, sanitary, crew, passenger, cargo, logs, books and plans.</p> <p>Infrastructure and superstructure of ports, land and sea terminals as well as logistic centers, including hydrotechnical structures. All facilities and devices that allow access to the port from the sea and land, including water basins and land areas, related to the conduct of port activities (elements of avanport and aquaport, port entrance, external and internal port channels, roadstead, braking distance, turntable, port basins).</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:33%;">Subject passing criteria</th> <th style="width:33%;">Passing threshold</th> <th style="width:33%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Lecture</td> <td>60.0%</td> <td>50.0%</td> </tr> <tr> <td>Seminar</td> <td>60.0%</td> <td>50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Lecture	60.0%	50.0%	Seminar	60.0%	50.0%
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	Lecture	60.0%	50.0%									
Seminar	60.0%	50.0%										
Recommended reading	<p>Basic literature</p> <ol style="list-style-type: none"> <li>1. Kubicki J., <i>Ekonomika i organizacja transportu morskiego, Organizacja transportu morskiego cz. I, cz. II</i>, Wydawnictwo Wyższej Szkoły Morskiej w Gdyni, Gdynia 1994.</li> <li>2. Ambroziak T., Jacyna M., <i>Wybrane aspekty organizacji centrów logistycznych</i>, Prace Naukowe Politechniki Radomskiej, Radom 2003.</li> <li>3. Kryś P., <i>Metoda oceny funkcjonowania centrów logistycznych</i>, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2020.</li> <li>4. Jachimowski R., <i>Ocena funkcjonowania terminali intermodalnych w aspekcie realizowanych procesów transportowo-przeładunkowych</i>, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa. 2018.</li> <li>5. Tołkacz L., <i>Infrastruktura transportu wodnego</i>, Zachodniopomorski Uniwersytet Technologiczny w Szczecinie, Szczecin 2010.</li> </ol>											
	Supplementary literature	<ol style="list-style-type: none"> <li>1. Drewnowski A., Siedlecki P., Zalewski P., <i>Technologia transportu kolejowego</i>, Wydawnictwa Komunikacji i Łączności, Warszawa, 2020.</li> </ol>										
	eResources addresses											
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Determining the basic parameters of the terminal and logistics center.</li> <li>2. Knowledge of port documentation.</li> <li>3. Knowledge of basic mathematical models in the field of general assessment of the functioning of the terminal and logistics center.</li> <li>4. Possibilities of optimization of selected processes in the operation of ports, transshipment terminals and logistic centers.</li> </ol>											
Work placement	Not applicable											