



Subject card

Subject name and code	Maritime Logistics, PG_00056203						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Division of Applied Computer Science -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marcin Życzkowski				
	Teachers		dr inż. Marcin Życzkowski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0	0.0	45
	E-learning hours included: 0.0						
	Additional information: The student also follows media reports on Maritime Economy, Orska Logistics and Maritime Transport. Once a semester, each student presents in the form of a presentation the most important events during one week and presents a SWOT analysis.						
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		6.0		49.0	100
Subject objectives	Presentation of the basic concepts and definitions of logistics, the area of interest, acquire skills of solving logistic problems.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U07] applies knowledge on humanities, social and economical science in solving problems		The student acquires skills in the implementation of tasks related to planning a sea route, taking care of supplies and safety during a sea voyage.		[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		
	[K6_W07] has a general knowledge on humanities, social and economical sciences. Knows the rules of creating the forms of personal entrepreneurship and economic activity, has knowledge on the protection of intellectual property rights and industrial property rights and copyrights		The student acquires knowledge of maritime logistics, including the basics of sea route planning, the basics and rules of maritime transport. He has knowledge of E-Maritime and E-Transport support systems.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		

Subject contents	<p>The course consists of lectures and exercises. In addition, students carry out an independent project.</p> <p>As part of this project, students follow media reports on Maritime Economy, Maritime Logistics and Maritime Transport throughout the semester. Every week, students present major SWOT events and changes in performances. probably once a semester, each student presents his/her work,</p> <p>Class topics:</p> <p>The first classes are introduced to the subject of logistics, they present the genesis, the area of interaction of logistics, e-environment, and logistics, the basic concept of logistics and tasks in front of the logistics itself.</p> <p>Then, obligatory classes are with marine traffic engineering (geodesy, geophysics, geomorphology, terrestrial magnetism, sea geography, marine navigation).</p> <p>The next classes discuss the parameters of the sea route. The impact on safety during a sea voyage is presented, and CO2 emissions are presented.</p> <p>Classification of sea vessels according to various criteria. In addition, data on sea transport are provided. Shipping costs are shown.</p> <p>The main parameters of a sea-going vessel are presented, including data on the vessel, stability and displacement.</p> <p>One of the methods of checking the loading condition of a seagoing vessel (Draft Survey) is presented</p> <p>Discuss in detail loading and export to a container ship. The main statistical data on this means of transport are presented.</p> <p>The flow of documents during sea exchange is presented.</p> <p>Issues related to the introduction in maritime transport were discussed. The organizational structure of the IMO is presented. Conventions related to the maritime traffic environment, safety and environmental protection at sea are presented.</p> <p>Issues related to seaports were presented, especially issues related to the approach zone to the port, the so-called Vessel Traffic System.</p> <p>Several optimization algorithms that are used in maritime logistics are discussed. (Knapsack Problem, Prim's Algorithm, Kraskul's Algorithm, Disjktry)</p> <p>After each lecture, the student completes the e-course test at home.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	50.0%	30.0%
	Tasks during the exercises	50.0%	40.0%
	Test	50.0%	30.0%
Recommended reading	Basic literature	1. M.Jurdzińskie. Podstawy nawigacji morskiej. Gdynia 2003	
		2. M.Siudak. Badania Operacyjne. OWPW 1997	
		3. H.Wagner. Badania Operacyjne. PWE 1980	
		4. Podstawy logistyki. Praca zbiorowa, Biblioteka Logistyka, Instytut Logistyki i Magazynowania w Poznaniu, Poznań 2008.	
		5. Wilson Robin J. Wprowadzenie do teorii grafów. PWN 2016	
	Supplementary literature	n/d	
	eResources addresses	Adresy na platformie eNauczanie: Logistyka Morska sem. letni 2024 - Moodle ID: 36236 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36236	
Example issues/ example questions/ tasks being completed	<p>For storage truck arrived with a capacity of 10 t. Truck has so load the car to the value of the load was greatest, and the weight of the goods does not exceed 10 t. Here is a list of available goods in stock:</p> <p>Chest gold 6t 11mln zł; gearbox 5 silver, 5; transmission diamonds 4.7; Clothes designers 1 6; Exclusive watches 3.2; Electronic equipment 5.1; Works of art 2 8; China 4 5;</p>		
Work placement	Not applicable		

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