

Subject card

Subject name and code	Maritime Logistics, PG_00056199							
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	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor		dr inż. Marcin Życzkowski					
of lecturer (lecturers)	Teachers		dr inż. Marcin Życzkowski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0		0.0	45
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Self-study SUM		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_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					[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		
	[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		

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Subject contents	The first part of time are an introduction to the subject of logistics, represent the genesis, the area of interest in logistics, e-environment and logistics, the basic concepts of logistics and traffic engineering and the task facing the logistics. The development of the subject object present in the form of 6 modules. Earth, Sea, Transportation Mathematics, Graphs, Logistics The first 7 weeks of classes are implemented 3 modules (Earth, Sea, Transport) bound with traffic engineering are discussed topics such as geodesy, geophysics, geomorphology, geomagnetism, geography, sea, marine navigation and aviation, communications, law of motion at sea and in the air, object speed, distance traveled, position and its determination. Calculation of the final parameters conducted trip ETA, stocks. This part ends with a test. During the semester is scheduled a visit to the VTS Gulf of Gdansk - The vessel traffic in the Gulf of Gdansk The second part of semester are implemented 3 new modules (Mathematics, graphs, Logistics) knowledge gained from the first part of the semester allows to implement additional modules. Traffic Engineering is used to implement optimization algorithms. The student learns the basics of graph theory and algorithms such search the shortest path algorithms are illustrated in the examples of logistics and traffic engineering. Last exam is with traffic engineering and logistics finished this course						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Exam	50.0%	50.0%				
	Exam	50.0%	50.0%				
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, Ins 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		DWPW 1997 PWE 1980 va, Biblioteka Logistyka, Instytut aniu, Poznań 2008. o teorii grafów. PWN 2016				
Example issues/ example questions/	https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36236 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: 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;						
tasks being completed	Chest gold 6t 11mln zł; gearbox 5 s	silver, 5; transmission diamonds 4.7;					

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