

## Subject card

Subject name and code	Maritime Logistics, PG_00045216								
Field of study	Transport and Logistics, Transport and Logistics								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
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 of lecturer (lecturers)	Subject supervisor		dr inż. Marcin Życzkowski						
	Teachers		dr inż. Marcin						
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								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Self-study		SUM		
	Number of study hours	45		6.0		44.0		95	
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		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.			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
	[K6_U07] applies kno humanities, social ar science in solving pro				[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							
	iviaurematics, 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 algorithm minimum tree fastener algorithm to maximize flow algorithm optimal load "knapsack problem". All 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	M.Jurdzińskie. Podstawy nawigacji morskiej. Gdynia 2003						
		2. M.Siudak. Badania Operacyjne. OWPW 1997						
		3. H.Wagner. Badania Operacyjne. PWE 1980						
		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							
Example issues/ example questions/ tasks being completed	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;							
		Not applicable						

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