



## Subject card

Subject name and code	Maritime Logistics, PG_00056199						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2021		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	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 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						
	Address on the e-learning platform: <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=11672">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=11672</a>						
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 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.</p> <p>The development of the subject object present in the form of 6 modules.</p> <p>Earth, Sea, Transportation</p> <p>Mathematics, Graphs, Logistics</p> <p>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.</p> <p>During the semester is scheduled a visit to the VTS Gulf of Gdansk - The vessel traffic in the Gulf of Gdansk</p> <p>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.</p> <p>Last exam is with traffic engineering and logistics finished this course</p>																							
Prerequisites and co-requisites																								
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Exam</td><td>50.0%</td><td>50.0%</td></tr><tr><td>Exam</td><td>50.0%</td><td>50.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	Exam	50.0%	50.0%	Exam	50.0%	50.0%														
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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																							