

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Cargo Science, PG_00056216								
Field of study	Transport and Logistics								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study			Language of instruction			Polish			
Semester of study	5		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. Agnieszka Maczyszyn						
	Teachers	dr inż. Agnieszka Maczyszyn							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory		Project	ect Seminar St		SUM	
	Number of study hours	30.0	0.0	0.0	15.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	1 1	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study St		
	Number of study hours	45	5.0 50.		50.0	50.0 100			
	P/S Justification of selection of a project theme, determination of the work objective and the necessary elements to active the intendant effect. Presentation of the elements of performed project, active participation in seminar discussions								
Learning outcomes	Course outcome		Subject outcome		Method of verification		rification		
J	[K6_U05] can formulate a simple engineering task and its		The student is able to select the appropriate means and transport systems for a specific group of goods.		sport of	[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
	knowledge on design, construction		The student is able to recognize dangerous loads by marking placed on the means of transport.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
Subject contents	LECTURES Basic definitions: transport, transportation process, commodities, science of commodities, cargo, science of cargos, quality, standardization, unification; cargo vulnerability; cargo classification; physical and chemical properties of cargo; biochemical properties of cargo; external impact on cargos; packaging; cargo units; cargo containers; classification of containers; packaging markings, main loading techniques; choice of loading technique: Lo-Lo, Ro-Ro, Pump in - Pump out; cranes: types, characteristics, capacities; travelling cranes, cranes, lift trucks; store equipment: lift, wagon tipplers; cargo holders; loading techniques and cargo protection on the transport vehicles.								
	PROJECT mini-project in selected problems								

Prerequisites and co-requisites	Principles of machine design					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Presentation and submission of project work	50.0%	50.0%			
	Colloquiums	50.0%	50.0%			
Recommended reading	Basic literature	<ol> <li>Szarnow R.: Ładunkoznawstwo okrętowe, Wyd. WSM Gdynia 1996</li> <li>Nierzwicki W.: Opakowania, Wyd. WSM Gdynia 1996 3.</li> <li>Korzeniowski A.: Zarządzanie gospodarką magazynową, PWE 1997</li> <li>Grzybowisk L.: Kontenery w transporcie morskim, Wyd. Trademar Gdynia 1999 5.Karpiel Ł., Skrzypek M.: Towaroznawstwo ogólne, Wyd.</li> <li>Akademii Ekonomicznej 2000 6.Gubiła M.: Podstawy zarządzania magazynem w przykładach, Biblioteka logistyka Poznań 2002</li> <li>Wiśnicki B.: Vademecum konteneryzacji, Link 2006</li> </ol>				
	Supplementary literature	No requirements				
	eResources addresses	Adresy na platformie eNauczanie: Ładunkoznawstwo, WiP, TiL,sem.5, zima 24/25 (PG_00056216) Moodle ID: 38954 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38954				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable	Not applicable				

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