



## Subject card

Subject name and code	Commodity Science, PG_00060668						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2025/2026		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study 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	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			5.0		
Learning profile	general academic profile	Assessment form			exam		
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						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	E-learning hours included: 0.0						
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	60		5.0		60.0	125
Subject objectives	Getting to know the classification of types of goods, quality characteristics of goods, criteria for the division and classification of cargo, learning about the resistance of cargo to the time of transport and storage, learning about the principles of transport of dangerous goods and their classification.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_K01] is aware of the need for continuous improvement in the field of the profession and knows the possibilities of further education	Knowledge of the regulations defining the methods of transportation and storage of cargo.			[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U05] can formulate a simple engineering task and its specification in the field of design, maintenance and operation of transport means and systems	Knowledge of the classification of types of goods, quality characteristics of goods, criteria for the division and classification of cargoes			[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment		
	[K6_W05] has established knowledge in the field of design, construction and operation of transport means and systems	Ability to actively participate in classes as a debater.			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
Subject contents	LECTURE Basic definitions: transport, transport process, transportation, goods, commodity science, cargo, cargo science, quality, standardization, typification, unification; susceptibility of charges; classification Loads; physical and physicochemical properties of the charges; biochemical processes occurring in Loads; the influence of external factors on the loads; Packaging; loading units; Containers Load; container classification; labelling of packages; basic handling techniques; choice Translation Techniques						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Colloquia	50.0%			50.0%		
	Additional works set during 1 class	50.0%			0.0%		
	Mini colloquia	50.0%			20.0%		
	Report	50.0%			30.0%		

Recommended reading	Basic literature	1. Szarnow R.: Ship cargo science, Wyd. WSM Gdynia 19962. Nierzwicki W.: Packaging, Wyd. WSM Gdynia 19963.Korzeniowski A.: Warehouse management, PWE 19974.Grzybowisk L.: Containers in maritime transport, Wyd. Trademar Gdynia 19995.Karpiel Ł., Skrzypek M.: General Commodity Science, Wyd. University of Economics 20006.Gubiła M.: Basics of warehouse management in examples, Biblioteka logistyka Poznań 20027.Wiśnicki B.: Vademecum of containerization, Link 2006
	Supplementary literature	collective work edited by Domachowska M., Rusak E., Ship loads. Encyclopedic Guide, Polish Commodity Society, Maritime Branch, Sopot 1994
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	