GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Commodity Science, PG_00060668		
Field of study	Transport and Logistics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
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 Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Agnieszka Maczyszyn	
	Teachers		

Lesson types

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.	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness
[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.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
[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	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information

Subject contents

Course content – lecture
LECTURE Basic definitions: transport, transport process, transportation, goods, commodity science,cargo, cargo science, quality, standardization, typification, unification; susceptibility of charges; classificationLoads; physical and physicochemical properties of the charges; biochemical processes occurring inLoads; the influence of external factors on the loads; Packaging; loading units; ContainersLoad; container classification; labelling of packages; basic handling techniques; choiceTranslation Techniques

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Report	50.0%	30.0%
Mini colloquia	50.0%	20.0%
Additional works set during 1 class	50.0%	0.0%
Colloquia	50.0%	50.0%

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	
Example issues/ example questions/ tasks being completed		
Practical activites within the subject	Not applicable	

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