



Subject card

Subject name and code	Cargo Stowing, Lashing and Securing, PG_00060650						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies	Subject group			Obligatory subject group 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			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Division of Marine Auxiliary Machinery -> Institute of Naval Architecture -> 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	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	0.0	0.0	30
	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	30		2.0		18.0	50
Subject objectives	Principles of securing loads and the impact of securing loads on the operation of means of transport						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W05] has established knowledge in the field of design, construction and operation of transport means and systems		The student knows the impact of proper load securing on the functioning of means of transport		[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[K6_U05] can formulate a simple engineering task and its specification in the field of design, maintenance and operation of transport means and systems		The student is able to estimate the forces resulting from the impact of the load and is able to select the necessary fastening equipment		[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_K03] understands non-technical aspects and effects of activity in the profession of an engineer and its impact on the environment; is aware of the responsibility for decisions made		The student is able to determine the impact of proper load securing on the environment and transport safety		[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	- fastening materials and techniques; - forming a container cargo unit; - loading techniques and equipment; - dynamic impacts in transport; - ship stability; - examples of securing typical cargo groups;						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	exercises - colloquium		60.0%		50.0%		
	lecture - colloquium		60.0%		50.0%		

Recommended reading	Basic literature	[1] Krasowska K, Poppek M.: Ładunkoznawstwo. Wyd AM w Gdyni, 2015 [2] Madej B. Madej R.: Załadunek i mocowanie ładunków w transporcie drogowym. Wyd NET POLSKA, 2021 [3] Bielecki M.: Mocowanie ładunków. Wyd. Liwona 2021 [4] Szozda Z.: Stateczność statku morskiego. Wyd Naukowe AM Szczecin, 2016
	Supplementary literature	[1] Kunert J.: Sztauowanie ładunków okrętowych. Wyd. Morskie 1963 [2] Skrzymowski W.: Zawiesia dźwignic. Budowa i eksploatacja. Wyd KaBe, 2019 [3] Prochowski L., Żuchowski A.: Technika transportu ładunków. Wkll, 2016
	eResources addresses	Podstawowe https://www.researchgate.net/publication/281292577_Vademecum_konteneryzacji_-_Formowanie_kontenerowej_jednostki_ładunkowej_-_Vademecum_of_containerization - ed. Bogusz Wiśnicki https://www.janossowski.pl/data/files/wytyczne.pdf - guidelines for stowage of cargo in road transport - Jan Ossowski Adresy na platformie eNauczanie: Sztauowanie i mocowanie ładunków, WiĆw, TiL, sem.4, lato24/25, (PG_00060650) - Moodle ID: 42869 https://enauzanie.pg.edu.pl/moodle/course/view.php?id=42869
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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