GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Logistic terminals, PG_00057119
Field of study	Transport and Logistics

Date of commencement of studies	February 2023	Academic year of realisation of subject	2023/2024
Education level	second-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	1	Language of instruction	Polish
Semester of study	2	ECTS credits	3.0
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	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	30.0	0.0	45
	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	45	9.0	21.0	75

Subject objectives	The aim of teaching the subject is to present the basic concepts and introduction students with the spatial aspects of organization logistic terminals.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_K04] The student is able to properly define priorities to achieve a specific goal or other tasks, correctly identifies and resolves dilemmas related to the performance of the profession	The student is able to plan and interpret the results obtained and draw conclusions.	[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness
	[K7_U04] The student is able to use the known methods and mathematical models, as well as computer simulations to analyze, design and evaluate the functioning of transport systems or their components	The student can determine the size storage yard and quantity devices needed for transshipment of goods	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information
	[K7_U08] The student is able to manage the work of the team, coordinate the execution of a project or research task	The student is able to work in team performing various roles	[SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
	[K7_W06] The student has an extensive knowledge of transport systems and the principles of transport systems integration	The student is able to divide example logistics terminal for functional zones.	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects

Subject contents	1. Introduction to the subject 2. Container in sea transport 3. Transport corridors; 4. Characteristics of technical means used in transport: a. water; b. roadside; c. railway; 5.Evolution of container terminals; 6. Functioning, organization and design of spatial components of marine container terminals in particular areas: a) Coastal zone; b) Storage area ; c) Technological zone ; d) Entry and exit zone; 7. Methodology of creating a spatial development concept for the terminal 8.External objects coupled with port container terminals; 9. Conditions for the carriage of loading units; 10. Requirements for storing loading units; 11. The method of calculating the handling capacity of the trans-shipment terminal; 12. Outlays and costs of container terminal operations.
Prerequisites and co-requisites	Knowledge of subjects: History of transport, ships in water transport, transport systems, means of transport,

Assessment methods and criteria			
	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	55.0%	60.0%
	Colloquia	55.0%	40.0%

Recommended reading	Basic literature	Günther H.-O., Kim K. H.: Container terminals and automated transport systems, Wydawnictwo Springer,Berlin, 2005 ISBN: 978-3-540-22328-3 Ioannou P., Chassiakos A., Zhang J., Kanaris A., Unglaub R: Automated container transport system between inland port and terminals, Project Report, University of Southern California, 2002 Ioannou P. A., Jula H, Liu C-I, Vukadinovic K., Pourmohammadi H., Dougherty Jr E.: Advanced material handling: automated guided vehicles in agile ports, Final Report, University of Southern California, 2001
	Supplementary literature	Ioannou P. A., Kosmatopoulos E. B., Jula H., Collinge A., Liu C-I., Asef-Vaziri A., Dougherty Jr E.: Cargo handling technologies, Final Report, University of Southern California, 2001
	eResources addresses	Adresy na platformie eNauczanie: Terminale logistyczne, WiP, TiL, sem.02,zimowy 23/24 (PG_00057119) - Moodle ID: 31380 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31380

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable