



Subject card

Subject name and code	, PG_00058652						
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				
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		6.0		
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. Daniel Piątek				
	Teachers		dr inż. Daniel Piątek				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	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		0.0		0.0	30
Subject objectives	<div>- preparation of a preliminary, conceptual design of the actual transport system;</div> <div>- highlighting the specificity of transporting various loads (containers, coal, grain, etc.) by means of various modes of transport (sea transport, inland navigation, rail and road transport);</div> <div>- determination of the functional parameters of the sea and land terminals;</div> <div>- selection of technologies and reloading devices; - communication and information exchange between groups of students;</div>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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 properly develop and present the information in a way that is useful for other members of the project team	[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task
	[K7_U06] The student is able to notice their non-technical aspects, including environmental, economic and legal aspects when formulating and solving project tasks. Applies the principles of occupational health and safety	the student is able to optimize the designed system in terms of the economic effect and limiting the impact on the natural environment	[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task
	[K7_U01] The student can obtain information from literature, databases and other, properly selected sources, also in English; is able to integrate the obtained information, interpret it, as well as draw conclusions and formulate and justify opinions	the student, on the basis of the analysis of available sources, is able to develop a functional, multi-level transport system	[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task
	[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, on the basis of his knowledge, can determine the priority elements for the functioning of the transport system	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work
	[K7_K01] The student understands the need for lifelong learning, is able to critically assess the content, knows the importance of knowledge in solving cognitive and practical problems	the student is able to analytically assess the functioning of the existing transport systems	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work
Subject contents	<ul style="list-style-type: none"> - determination of the functional parameters of the transport system; - mapping out optimal routes for linear infrastructure; - determination of parameters and selection of means of transport to perform the task; - determination of the functional layout of the sea and land transshipment terminals; - selection of reloading equipment necessary for the operation of terminals; 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	project	60.0%	100.0%

Recommended reading	Basic literature	<p>GUCMA, S.: Inżynieria ruchu morskiego. Okrętownictwo i Żegluga. Gdańsk 2001.</p> <p>JAGNISZCZAK, I., ŁUSZNIKOW, E.: Bezpieczeństwo nawigacji. Fundacja Promocji Przemysłu Okrętowego i Gospodarki Morskiej. Gdańsk 2010.</p> <p>KOLASZEWSKI, A., ŚWIDWIŃSKI P.: Żeglarz i sternik jachtowy. Almapress, Wa-wa 2002.</p> <p>DĄBROWSKA-BAJON, M.: Podstawy sterowania ruchem kolejowym, Politechnika Warszawska, Warszawa 2002.</p> <p>CIEŚLAKOWSKI, S.: Stacje kolejowe. Wydawnictwa Komunikacji i Łączności, Wa-wa 1992.</p> <p>GACA, S., SUCHORZEWSKI, W., TRACZ, M.: Inżynieria ruchu drogowego. Teoria i praktyka. WKŁ, 2011</p> <p>KRYSTEK, R.: Węzły drogowe i autostradowe. WKŁ 2008,</p>
	Supplementary literature	
	eResources addresses	<p>Podstawowe</p> <p>https://www.researchgate.net/publication/281292577_Vademecum_konteneryzacji_-_Formowanie_kontenerowej_jednostki_ladunkowej - book</p> <p>Vademecum of containerization</p> <p>Adresy na platformie eNauczanie:</p>
Example issues/ example questions/ tasks being completed	<p>prepare a preliminary design, conceptual transport systems:</p> <p>- containers; - coal; - cereals; - natural gas;</p> <p>in relation sea terminal - land terminal, with the participation of transport:</p> <p>- road; - railway; - inland;</p>	
Work placement	Not applicable	