



Subject card

Subject name and code	Maritime and intermodal transport, PG_00057133						
Field of study	Ocean Engineering						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2022/2023		
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	1	ECTS credits			2.0		
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	30.0	0.0	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	5.0		15.0	50	
Subject objectives	- the role of maritime transport and its main means of shipping in global trade; - adaptation of the ship to the transport function; - integration of maritime transport with other modes of transport;						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_W07] has knowledge on the development perspectives of ocean technology objects and systems, knows the newest and most relevant achievements in ocean technology	the student knows the advantages and disadvantages of various types of transport, can identify development trends			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
	[K7_W09] has organized, widened knowledge on the principles of sustainable development	the student knows the environmental impact of individual means of transport and is able to describe the technical measures to reduce this impact.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
	[K7_W08] has knowledge necessary to understand economical, social and legal conditions and effects of engineering activities, knows general principles of initiating and develop forms of private entrepreneurship and has knowledge on the protection of industrial and intellectual property and on the copyrights	the student knows the main aspects related to the economics and safety of transport systems functioning			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		

Subject contents	<ul style="list-style-type: none"> - the role of a means of transport which is a sea ship in global transport; - adaptation of the sea-going vessel to the transport function (technical solutions, economy, safety); - transshipment terminals (containers, bulk products); - links with inland, road and maritime transport (including intermodality); - means and infrastructure of transport (inland, rail and rail); - the effect of types of transport; 								
Prerequisites and co-requisites									
Assessment methods and criteria	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Subject passing criteria</th> <th style="width: 33%;">Passing threshold</th> <th style="width: 33%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>test</td> <td>60.0%</td> <td>100.0%</td> </tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	test	60.0%	100.0%		
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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>Adresy na platformie eNauczanie: Transport morski i intermodalny, WYKŁAD, OCE II stacjonarne, sem 1, lato 2022/23, (PG_00057133) - Moodle ID: 27404 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27404</p>							
Example issues/ example questions/ tasks being completed									
Work placement	Not applicable								