



Subject card

Subject name and code	Fundamentals of Water Transport Systems, PG_00056152						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2021/2022		
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	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			1.0		
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 hab. inż. Jerzy Kowalski					
	Teachers	dr hab. inż. Jerzy Kowalski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13698 Adresy na platformie eNauczanie:						
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	15	3.0	7.0	25		
Subject objectives	Gaining knowledge about transportation systems, their divisions and their importance for economy						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_K03] understands non-technical aspects and effects of operation as an engineer, its influence on the environment and is aware of the responsibilities for the decisions taken	Student presents non-technical aspects and effects of activity in the profession of an engineer, its impact on the environment and is aware of the responsibility for decisions made			[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U04] has self-education skills in order to improve professional qualifications, is ready to work in industrial environment, adheres to HSE rules and regulations	is able to use and verify information from specialist and generally available knowledge bases in the field of transport systems			[SU2] Assessment of ability to analyse information		
	[K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport	has knowledge, based on theory, in the field of transport processes and systems, useful for understanding general structures of transport and transport chains			[SW1] Assessment of factual knowledge		
Subject contents	The role of transportation system in countrys economy, the range of transportation processes, project modes of transportation systems. Organisation of transportation processes of people and goods. Application of manners foe realization of transportation tasks. Supervising of transportation processes. Operating investigations.						
Prerequisites and co-requisites	Basic knowledge in technics.						
Assessment methods and criteria	Subject passing criteria	Passing threshold		Percentage of the final grade			
	lecture test	60.0%		100.0%			

Recommended reading	Basic literature	<p>Rydzkowski W., Wojewódzka-Król K, <i>Transportation</i>, PWN Warszawa 2010</p> <p>Jacyna M., <i>Modelling and verification of transportation systems</i>, Politechnika Warszawska Warszawa 2009</p> <p>Jakubowski L., <i>Technology of loading and unloading systems</i>, Politechnika Warszawska, Warszawa 2009</p> <p>Piskozub A., <i>Economy of transportation. Część I</i>, Uniwersytet Gdański. Skrypty uczelniane. Gdańsk 1971</p> <p>Wronka J.: <i>Combined and intermodal transportation (Theory and practice)</i>, Szczecin: Uniwersytet Szczeciński, 2008</p> <p>Grzywacz W., <i>Infrastructure of transportation</i>. WKiŁ, Warszawa 2003</p> <p>Wojewódzka-Król K. (red.), Rolbiecki R. (red.), : <i>Infrastructure of transportation</i>. Gdańsk: Wydawnictwo Uniwersytetu Gdańskiego, 2009</p> <p>Krzystek R. (red), <i>Integrated systems of transportation safety</i>. Gdańsk: WKiŁ i PG, 2009</p>
	Supplementary literature	Worlds Technical Press
	eResources addresses	
	Example issues/ example questions/ tasks being completed	What are the reasons to lead a model investigations of transportation systems?
Work placement	Not applicable	