



Subject card

Subject name and code	Infrastructure of Transport, PG_00056204						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group				
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		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Division of Automation and Marine Energy -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Jerzy Kowalski				
	Teachers		dr inż. Ryszard Pyszko dr hab. inż. Jerzy Kowalski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0	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		4.0		26.0	75
Subject objectives	The main aim of the course is to acquire knowledge in the field of transport infrastructure, including onroad, rail, water (inland and sea) and air transport. Students will also learn about specialized nomenclature and the relationships between transport modes.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of means and systems of transport		the student defines the basic issues in the field of logistics, traffic engineering and transport management		[SU2] Assessment of ability to analyse information		
	[K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport		the student analyzes transport investments technically and economic		[SW1] Assessment of factual knowledge		
	[K6_W08] has knowledge regarding the principles of sustainable development		Student describes the principles of sustainable development		[SW1] Assessment of factual knowledge		
Subject contents	The essence of transport infrastructure; Infrastructure and economic development; Environmental impact of transport; The condition of transport infrastructure in Poland and Europe; Loading infrastructure (installations) of tankers; Oil, gas and bulk cargo handling infrastructure; Container terminals; Contemporary trends in the development of transport infrastructure; Intermodal transport.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Pass a exercise		50.0%		50.0%		
	Pass a lecture		50.0%		50.0%		

Recommended reading	Basic literature	Infrastruktura transportu - Krystyna Wojewódzka-Król, Ryszard Rolbiecki. Wydawnictwo UG, 2008. Infrastruktura transportu: współczesne wyzwania rozwojowe - Andrzej S. Grzelakowski, Maciej Matczak. Wydawnictwo IMP PAN, 2015. Infrastruktura transportu - Tadeusz Basiewicz, Andrzej Gołaszewski, Leszek Rudziński. Oficyna Wydawnicza PW 2007.
	Supplementary literature	Infrastruktura transportu a konkurencyjność regionów w Unii Europejskiej - Barbary Pawłowskiej. Wydawnictwo UG, 2015.
	eResources addresses	Adresy na platformie eNauczanie: Infrastruktura transportu, W, Ist., lato, 2023/24 - Moodle ID: 36723 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36723 Infrastruktura transportu, Ć, sem4, lato23/24, PG_00056204 - Moodle ID: 38484 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38484
Example issues/ example questions/ tasks being completed	Present the economic role of transport infrastructure.	
Work placement	Not applicable	

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