



Subject card

Subject name and code	Infrastructure of Transport, PG_00045219						
Field of study	Transport and Logistics, Transport and Logistics						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2021/2022		
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	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		mgr inż. Damian Jakowski				
			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						
	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	45		3.5		26.5	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		formulate a simple engineering task and its specification in the field of design, production and operation of means and transport systems		[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W05] has an organized knowledge on design, construction and operation of means and systems of transport		Analyzes preliminary designs of elements of transport infrastructure		[SW1] Assessment of factual knowledge		
	[K6_W08] has knowledge regarding the principles of sustainable development		presents 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 lecture	50.0%	50.0%
	Pass a exercise	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		
Example issues/ example questions/ tasks being completed	Present the economic role of transport infrastructure.		
Work placement	Not applicable		