



Subject card

Subject name and code	Transport Infrastructure, PG_00060635						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2023/2024		
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			4.0		
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 mgr inż. Irena Dziwisz-Olszak					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	30.0	0.0	60
	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	60	4.0		36.0	100	
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_W07] has general knowledge in the field of humanities, social and economic sciences. Knows the principles of creating forms of individual entrepreneurship and running a business, and knows how to protect industrial and intellectual property and copyright law	Has general knowledge in the field of technical sciences.			[SW1] Assessment of factual knowledge		
	[K6_W06] has established knowledge of engineering methods and design tools enabling the implementation of projects in the field of construction and operation of transport means and systems	Has knowledge of engineering methods and design tools enabling the implementation of projects in the field of construction and operation of transport means and systems			[SW1] Assessment of factual knowledge		
	[K6_U05] can formulate a simple engineering task and its specification in the field of design, maintenance and operation of transport means and systems	formulates a simple engineering task and its specification in the field of design, implementation and operation of transport means and systems			[SU2] Assessment of ability to analyse information		

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., Ito, 2023/24 - Moodle ID: 36723 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36723	
Example issues/ example questions/ tasks being completed	Present the economic role of transport infrastructure.		
Work placement	Not applicable		