



## Subject card

Subject name and code	Transport infrastructure, PG_00057115						
Field of study	Transport and Logistics						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group			Obligatory subject group 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			5.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład Energetyki i Automatyki Morskiej -> 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 dr inż. Klaudia Wrzask					
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	12.0		53.0	125	
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		
	[K7_W07] The student has an extensive knowledge of logistics, traffic engineering and transport management	defines the basic issues in the field of logistics, traffic engineering and transport management			[SW1] Assessment of factual knowledge		
Subject contents	[K7_U05] The student is able to make a preliminary economic analysis of transport investments, indicate detailed legal provisions and industry regulations	analyzes transport investments in technical and economic terms			[SU1] Assessment of task fulfilment		
	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, Ilst., lato, 2023/24 - Moodle ID: 36728 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36728">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36728</a>
Example issues/ example questions/ tasks being completed	Present the economic role of transport infrastructure.	
Work placement	Not applicable	