



Subject card

Subject name and code	Fundamentals of transportation systems, PG_00060633						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
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	1		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 -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Jerzy Kowalski				
	Teachers						
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		3.0		27.0	75
Subject objectives	Gaining knowledge about transportation systems, their divisions and their importance for economy						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U06] can use appropriate methods and tools in accordance with the formulated specification; can perform a simple engineering task in the field of design, manufacture and operation of transport means and systems		uses and verifies information from specialized and publicly available knowledge bases in the field of transport systems		[SU2] Assessment of ability to analyse information		
	[K6_W05] has established knowledge in the field of design, construction and operation of transport means and systems		has knowledge of transport processes and systems useful for understanding general transport structures and transport chains		[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 simple engineering tasks in the field of transport systems		[SU1] Assessment of task fulfilment		
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		
	evaluation of task		60.0%		50.0%		
	lecture test		60.0%		50.0%		

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	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	What are the reasons to lead a model investigations of transportation systems?	
Work placement	Not applicable	

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