



Subject card

Subject name and code	Integration of transport subsystems, PG_00044656						
Field of study	INTEGRACJA PODSYSTEMÓW TRANSPORTU						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		Optional subject group 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	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Daniel Kaszubowski				
	Teachers		dr hab. Daniel Kaszubowski dr Justyna Staszak-Winkler				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	15.0	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		10.0		45.0	100
Subject objectives	The aim of the course is for the student to acquire knowledge and practical skills in the field of analysis and design of internally and externally integrated transport systems, in relation to their role in the economic and social system.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U12] able to select tools and methods, carry out assessments and simple tests of transport systems to an extent required of the specialty / learning profile		Ability to apply selected analytical tools used for simulation and systems modeling transport		[SU1] Ocena realizacji zadania [SU4] Ocena umiejętności korzystania z metod i narzędzi		
	[K6_W17] has proficiency in transport systems as appropriate for their specialty		Ability to perform cross-sectional analysis transport systems and indication of factors determining their effectiveness		[SW1] Ocena wiedzy faktograficznej		
Subject contents	Course content – lecture Lecture: Definition and elements of an integrated transport system, internal and external integration, principles and tools for the integration of transport systems, expected results of integration, types of barriers in integration and ways to overcome them. Laboratories: simulations and modeling of selected aspects transport systems in the AnyLogistix package						
	Course content – laboratory 1. Introduction to the functionality of AnyLogistix.						
	2. Overview of the principles of conducting Green Field Analysis experiments.						
	3. Overview of the principles of conducting Network Optimization experiments.						
	4. Overview of the principles of conducting Simulation experiments.						
Prerequisites and co-requisites	Knowledge of the subjects Logistics Management, Transport Logistics and Systems and Processes Transport						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Lecture - test	60.0%	50.0%
	Practical excercises	60.0%	50.0%
Recommended reading	Basic literature	1. K. Wojewódzka - Król, W. Rydzkowski: TransportW. 2. Grzywacz, K.Wojewódzka - Król, W. Rydzkowski: Politykatransportowa. 3. M. Jacyna: System logistyczny polski. 4. K. Wojewódzka - Król: Innowacje w transporcie	
	Supplementary literature	actual contenrt-related publications	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Laboratory: Green Field analysis of a conceptual two-level logistics system with effectiveness analysis using selected key performance indicators (KPIs) and system optimization		
Practical activites within the subject	Not applicable		

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