



## Subject card

Subject name and code	Integration of transport subsystems, PG_00044656						
Field of study	Transport						
Date of commencement of studies	October 2021		Academic year of realisation of subject			2024/2025	
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						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Daniel Kaszubowski				
	Teachers		dr hab. Daniel Kaszubowski				
Lesson types and methods of instruction	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_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] Assessment of factual knowledge	
	[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] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools	
Subject contents	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						
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	
	Practical excercises		60.0%			50.0%	
	Lecture - test		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		Adresy na platformie eNauczanie:				

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
Work placement	Not applicable

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