GDAŃSK UNIVERSITY OF TECHNOLOGY

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 andindication 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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