

GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00062181							
Field of study	Transport							
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			2.0		
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 inż. Krystian Birr						
	Teachers		mgr inż. Artur Ryś					
		dr inż. Krystian Birr						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	15.0	15.0	0.0		0.0	45
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		5.0		10.0		60
Subject objectives	The aim of the course is to teach students to develop and evaluate transport analyzes related to the operation of large traffic generators. Students will become familiar with the standards, good practices and most common mistakes in developing this type of analysis.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K7_W13] has advanced knowledge of the design and management of transport systems to an extent required of the specialty		The student knows methods and solutions related to the management and design of elements of transport systems in terms of analyzing the impact of investments on the functioning of the transport system.			[SW1] Assessment of factual knowledge		
	[K7_W05] has basic knowledge of control in transport systems		The student knows and is able to develop solutions related to traffic control in transport systems in analyzing the impact of investments on the functioning of the transport system.			[SW1] Assessment of factual knowledge		
	[K7_U13] able to solve detailed problems of transport systems to an extent required of the specialty		The student knows and is able to develop detailed solutions related to transport services for large traffic generators.			[SU1] Assessment of task fulfilment		

Lectures: identification, characteristics, classification of large traffic generators: sports and shopping complexes, universities, offices, office buildings, stations and airports. Methods for researching users' transport behavior. Methods of research on the volume of generated traffic. Transport behavior of users of large traffic generators. Modeling of motion potentials. The impact of large traffic generators on the load on the local transport system, spatial distribution of travel issues of multimodal transport issues of materials. The impact of insegore transport issues of multimodal transport system. Management of transport devices. Accessibility by public transport. Accessibility by bicycle and personal transport. devices Accessibility by public transport. Accessibility by bicycle and personal transport is services for mass events. Excretes and laboratories: Analysis of transport system. Management of transport services for mass events. Excretes and laboratories: Analysis of transport induces. Simulation analyzes of there and caffic around the facility. Presentation of performed analyses, interpretation of results, proposals for changes. Prerequisites and co-requisites and co-requisites General methodology for modeling transport processes, . Basics of estimating capacity and traffic conditions. Knowledge in the field of traffic research and measurement. Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Exercise and laboratory report 10.0% 50.0% co.0% Recommended reading Basic literature <	Subject contents							
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	Work placement	Not applicable	Not applicable					