



## Subject card

Subject name and code	Planning and organization of transportation processes, PG_00064273						
Field of study	Transport						
Date of commencement of studies	October 2024	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	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			3.0		
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 inż. Krystian Birr					
	Teachers	dr inż. Krystian Birr dr hab. Daniel Kaszubowski					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	E-learning hours included: 0.0						
eNauczanie source address: <a href="https://enauczanie.pg.edu.pl/2025/course/view.php?id=5204">https://enauczanie.pg.edu.pl/2025/course/view.php?id=5204</a>							
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	The objective of the course is to familiarize students with the fundamentals of planning the operation of transport systems, the development of infrastructure, and the organization of transport services in the urban transport and logistics sectors.						
Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_U08] able to carry out simple engineering tasks related to the construction and operation of a selected element of the transport system, select the right methods and tools	The student is able to identify existing and future problems in the functioning of the transport system and apply appropriate solutions based on relevant guidelines.	[SU1] Assessment of task fulfilment				
	[K6_W04] has knowledge in the areas of diagnosing, designing, and managing transportation systems and the processes occurring within them, economic processes, transport economics, transport financing systems, and transport law	The student understands how to apply appropriate solutions in the planning and organization of transport systems.	[SW2] Assessment of knowledge contained in presentation				
Subject contents	Course content – lecture <b>Methods of organizing transport systems in urban environments.</b>						
	<b>Methods of planning infrastructure solutions in urban transport.</b>						
	Course content – exercises						
	Group work in the form of workshops, during which solutions are developed for the organization of passenger and freight transport in urban areas, as well as for planning the development or reconstruction of transport infrastructure.						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Completion of a project assignment – planning part.	50.0%	50.0%
	Completion of a project assignment – organizational part.	50.0%	50.0%
Recommended reading	Basic literature	Recommended guidelines concerning roads ( <a href="https://www.gov.pl/web/infrastruktura/wr-d">https://www.gov.pl/web/infrastruktura/wr-d</a> )  Wojewódzka-Król K.: Infrastruktura transportu: Europa, Polska teoria i praktyka; Wydawnictwo Naukowe PWN, 2018	
	Supplementary literature	Free online e-course for students covering terminals, micro-hubs, zero-emission vehicles, stakeholder cooperation, and implementation requirements: <a href="https://civitas.eu/learning-centre/sustainable-urban-freight-transport">https://civitas.eu/learning-centre/sustainable-urban-freight-transport</a>  <b>POLIS Network Urban Freight Working Group</b> the <i>Relevant Publications</i> section contains the latest materials: <a href="https://www.polisnetwork.eu/what-we-do/working-groups/urban-freight/">https://www.polisnetwork.eu/what-we-do/working-groups/urban-freight/</a>  Policy document identifying the key research areas in urban freight transport: <a href="https://www.etp-logistics.eu/wp-content/uploads/2022/08/Urban-Freight-Roadmap.pdf">https://www.etp-logistics.eu/wp-content/uploads/2022/08/Urban-Freight-Roadmap.pdf</a>	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Impact of the Limited Access Zone (LAZ) in Gdańsk on the operations of a logistics operator. Selection of transport infrastructure solutions adapted to spatial constraints and traffic volumes.		
Practical activities within the subject	Not applicable		

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