



Subject card

Subject name and code	, PG_00065284										
Field of study	Organizacja i zarządzanie transportem kolejowym										
Date of commencement of studies	February 2025		Academic year of realisation of subject		2025/2026						
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	Faculty of Civil and Environmental Engineering -> Wydziały Politechniki Gdańskiej										
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Sławomir Grulkowski								
	Teachers										
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM				
	Number of study hours	15.0	15.0	0.0	0.0	0.0	30				
	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	30		0.0		0.0	30				
Subject objectives	Obtaining basic information on the technique and organization of railway transport.										
	Transmission of the message on vertical management in rail traffic										
Learning outcomes	Course outcome		Subject outcome			Method of verification					
	[K7_W01] identifies in an in-depth way phenomena related to the field of study as well as theories describing them and possible methods of analyzing processes occurring in the life cycle of technical systems		The student is able to determine the capacity of a station and a railway line. He is able to create a timetable.			[SW1] Ocena wiedzy faktograficznej					
	[K7_U02] presents logical and solid arguments regarding the obtained results, through analysis, synthesis of information in various technical contexts, critically approaching their interpretation		It can analyze data from transport systems in order to integrate them			[SU4] Ocena umiejętności korzystania z metod i narzędzi [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu					
	[K7_K02] makes competent and ethical decisions, caring for the public interest and maintaining economic, social and environmental values		Is able to choose the preferred transport system in a given situation. Is able to calculate the capacity of the means of transport			[SK3] Ocena umiejętności organizacji pracy [SK2] Ocena postępów pracy					
	[K7_U05] cooperates with other people in the implementation of team work, both as a leader and a team member, effectively achieving set goals		Is able to identify and define the role of transport in a given location and economic situation. Is able to establish a hierarchy of means of transport with the team			[SU4] Ocena umiejętności korzystania z metod i narzędzi [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu					
	[K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems		Identifies rolling stock and personnel needs. Determines the use of transport potential using scientific methods			[SK1] Ocena umiejętności pracy w grupie [SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce					

Subject contents	<p><b>LECTURE</b></p> <p>Rules and procedures for running train traffic on the railway network.</p> <p>Timetable preparation procedure</p> <p>Technology of passenger transport</p> <p>Technology of rail freight Interoperability</p> <p>Capacity of lines and railway stations.</p> <p><b>TUTORIALS</b></p> <p>Cyclical timetable</p> <p>Circulation and rotation of the composition</p> <p>Calculation of bandwidth</p>									
Prerequisites and co-requisites	Basic information on the subjects Railway Traffic Engineering and Rail Transport Infrastructure									
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="454 956 771 979">Subject passing criteria</th><th data-bbox="771 956 1137 979">Passing threshold</th><th data-bbox="1137 956 1481 979">Percentage of the final grade</th></tr> </thead> <tbody> <tr> <td data-bbox="454 979 771 1001">Test</td><td data-bbox="771 979 1137 1001">60.0%</td><td data-bbox="1137 979 1481 1001">50.0%</td></tr> <tr> <td data-bbox="454 1001 771 1024">Tutorials</td><td data-bbox="771 1001 1137 1024">60.0%</td><td data-bbox="1137 1001 1481 1024">50.0%</td></tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	Test	60.0%	50.0%	Tutorials	60.0%	50.0%
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Test	60.0%	50.0%								
Tutorials	60.0%	50.0%								
Recommended reading	<p>Basic literature</p> <p>Jacyna M., Gołębiowski P., Krześniak M., Szkopiński J., Organizacja ruchu kolejowego, Warszawa, 2019.</p> <p>Żurkowski A., Pawlik M., Ruch i przewozy kolejowe. Sterowanie ruchem, Warszawa, 2010.</p> <p>Żurkowski A., Ewolucja i nowoczesne zasady budowy wykresu ruchu pociągów pasażerskich, Logistyka, 3, 2014.</p> <p>Nowosielski L., Organizacja przewozów kolejowych, KOW, Warszawa, 1999</p> <p>Supplementary literature</p> <p>Urbanyi-Popiółek I., Ekonomiczne i organizacyjne aspekty transportu, Wyższa Szkoła Gospodarki w Bydgoszczy, Bydgoszcz, 2013</p> <p>Zalewski P., Siedlecki P., Drewnowski A., Technologia transportu kolejowego, WKŁ, Warszawa, 2004.</p> <p>eResources addresses</p>									
Example issues/example questions/tasks being completed	<p>What is train and shunting?</p> <p>Cyclical, integrated timetable</p> <p>Calculation of transport needs</p>									
Practical activites within the subject	Not applicable									

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