

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00065226								
Field of study	Transport								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025			
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								
Name and surname	Subject supervisor		dr inż. Sławomir Grulkowski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours inclu	uded: 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 out	Subject outcome			Method of verification				
	[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			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
	[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			[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills			
	[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] Assessment of factual knowledge			

Subject contents	LECTURE							
	Rules and procedures for running train traffic on the railway network.							
	Timetable preparation procedure							
	Technology of passenger transport							
	Technology of rail freight Interoperability							
	Capacity of lines and railway stations. TUTORIALS Cyclical timetable Circulation and rotation of the composition							
	Calculation of bandwidth							
Droroguisitos	Basic information on the subjects Railway Traffic Engineering and Rail Transport Infrastructure							
Prerequisites and co-requisites	basic mornation on the subjects rankay france Engineering and rail fransport initastructure							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	Tutorials	60.0%	50.0%					
	Test	60.0%	50.0%					
Recommended reading	Basic literature Jacyna M., Gołębiowski P., Krześniak M., Szkopiński J., Organizacj ruchu kolejowego, Warszawa, 2019.							
		Żurkowski A., Pawlik M., Ruch i przewozy kolejowe. Sterowanie ruchem, Warszawa, 2010.						
		Żurkowski A., Ewolucja i nowoczesne zasady budowy wykresu ruchu pociągów pasażerskich, Logistyka, 3, 2014.						
		Nowosielski L., Organizacja przewozów kolejowych, KOW, Warszawa,						
	1999							
	Supplementary literature	Urbanyi-Popiołek I., Ekonomiczne i	rbanyi-Popiołek I., Ekonomiczne i organizacyjne aspekty transportu,					
		Wyższa Szkoła Gospodarki w Bydg	oszczy, Bydgoszcz, 2013					
		Zalewski P., Siedlecki P., Drewnows	ski A., Technologia transportu					
		Zalewski P., Siedlecki P., Drewnows kolejowego, WKŁ, Waeszawa, 2004	ski A., Technologia transportu					
	eResources addresses	Zalewski P., Siedlecki P., Drewnows kolejowego, WKŁ, Waeszawa, 2004 Adresy na platformie eNauczanie:	ski A., Technologia transportu					
Example issues/	eResources addresses What is train and shunting?	kolejowego, WKŁ, Waeszawa, 2004	ski A., Technologia transportu					
example questions/		kolejowego, WKŁ, Waeszawa, 2004	ski A., Technologia transportu					
		kolejowego, WKŁ, Waeszawa, 2004	ski A., Technologia transportu					
example questions/	What is train and shunting?	kolejowego, WKŁ, Waeszawa, 2004	ski A., Technologia transportu					
example questions/	What is train and shunting?	kolejowego, WKŁ, Waeszawa, 2004	ski A., Technologia transportu					
example questions/	What is train and shunting? Cyclical, integrated timetable	kolejowego, WKŁ, Waeszawa, 2004	ski A., Technologia transportu					

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