

## GDAŃSK UNIVERSITY

## Subject card

Subject name and code	Management and organization of railway traffic, PG_00044650							
Field of study	Transport							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024		
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	Faculty of Civil and Environmental Engineering							
Name and surname	Subject supervisor		dr inż. Sławomir Grulkowski					
of lecturer (lecturers)	Teachers		dr inż. Sławoi					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	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	Obtaining basic information on the technique and organization of railway traffic. Transmission of the message on vertical management in rail traffic							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	[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		The student is able to design and evaluate the effectiveness of the timetable. Can assess bandwidth parameters and find solutions to problems			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools		
	[K6_W17] has proficiency in transport systems as appropriate for their specialty		The student is able to interpret movement problems and find a solution.			[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. PROJECTS Cyclical timetable Circulation and rotation of the composition Calculation of bandwidth						
Prerequisites and co-requisites	Basic information on the subjects Railway Traffic Engineering and Rail Transport Infrastructure						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Projects	60.0%	50.0%				
	Test	60.0%	50.0%				
Recommended reading	Basic literature Jacyna M., Gołębiowski P., Krześniak M., Szkopiński J., Organizacji ruchu kolejowego, Warszawa, 2019.						
		Żurkowski A., Pawlik M., Ruch i przewozy kolejowe. Sterowanie ruchem, Warszawa, 2010.					
		Żurkowski A., Ewolucja i nowoczesne zasady budowy wyk pociągów pasażerskich, Logistyka, 3, 2014.					
		Nowosielski L., Organizacja przewozów kolejowych, KOW, Warszawa, 1999					
	Supplementary literature Urbanyi-Popiołek I., Ekonomiczne i organizacyjne aspekty trans Wyższa Szkoła Gospodarki w Bydgoszczy, Bydgoszcz, 2013						
		Zalewski P., Siedlecki P., Drewnowski A., Technologia transportu kolejowego, WKŁ, Waeszawa, 2004.					
	eResources addresses	Adresy na platformie eNauczanie: Zarządzanie i Organizacja Ruchu Kolejowego - 7T_I_IR_2023/24 - Moodle ID: 30685 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30685					
		Zarządzanie i Organizacja Ruchu K Moodle ID: 30685					
Example issues/ example questions/	What is train and shunting?	Zarządzanie i Organizacja Ruchu K Moodle ID: 30685					
	What is train and shunting? Cyclical, integrated timetable	Zarządzanie i Organizacja Ruchu K Moodle ID: 30685					
example questions/		Zarządzanie i Organizacja Ruchu K Moodle ID: 30685					