

## 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 of lecturer (lecturers)	Subject supervisor		dr inż. Sławomir Grulkowski					
	Teachers		dr inż. Sławomir Grulkowski					
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.							
	Traces and procedures for furning train traffic off the failway fietwork.							
	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	<ul> <li>Basic literature</li> <li>Jacyna M., Gołębiowski P., Krześniak M., Szkopiński J., Organiza ruchu kolejowego, Warszawa, 2019.</li> <li>Żurkowski A., Pawlik M., Ruch i przewozy kolejowe. Sterowanie ruchem, Warszawa, 2010.</li> </ul>							
		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 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 K Moodle ID: 30685 https://enauczanie.pg.edu.pl/moodl						
Example issues/ example questions/ tasks being completed	eResources addresses What is train and shunting?	Zarządzanie i Organizacja Ruchu K						
		Zarządzanie i Organizacja Ruchu K Moodle ID: 30685						
example questions/	What is train and shunting?	Zarządzanie i Organizacja Ruchu K Moodle ID: 30685						