

## Subject card

Subject name and code	Management and organization of railway traffic, PG_00044650								
Field of study	Transport								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2024/2025			
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								
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_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			
	[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			

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Subject contents	LECTURE							
	Dulas and are salives for maning train traffic and the military and							
	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	Test	60.0%	50.0%					
	Projects	60.0%	50.0%					
Recommended reading	Basic literature	Jacyna M., Gołębiowski P., Krześniak M., Szkopiński J., Organizacja 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 przewo 1999	cja przewozów kolejowych, KOW, Warszawa,					
	Supplementary literature	Urbanyi-Popiołek I., Ekonomiczne i organizacyjne aspekty transportu, 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:							
Example issues/ example questions/ tasks being completed	What is train and shunting?							
action boiling completed	Cyclical, integrated timetable							
	Calculation of transport needs							
Work placement	Not applicable							

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