

Subject card

Subject name and code	, PG_00065284									
Field of study	Transport									
Date of commencement of	February 2024		Academic year of			2024/2025				
studies			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 of lecturer (lecturers)	Subject supervisor		dr inż. Sławomir Grulkowski							
	Teachers									
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ject 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 ir classes includ plan			Participation in consultation hours		Self-study		SUM		
	Number of study hours	30		0.0	0.0			30		
	Transmission of the message on vertical management in rail traffic									
Learning outcomes	Course outcome		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 role of transport in a given location and economic situation. Is able to establish a hierarchy of means of transport with the team			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools				
	[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			[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				
	[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			[SK2] Assessment of progress of work [SK3] Assessment of ability to organize work				

Subject contents	LECTURE							
	Dules and procedures for rupping train traffs on the sailway actually							
	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							
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	Tutorials	60.0%	50.0%					
	Test	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 przewozów kolejowych, KOW, Warszawa, 1999						
	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							
Example issues/ example questions/ tasks being completed	eResources addresses Adresy na platformie eNauczanie: What is train and shunting?							
tasks being completed	Cyclical, integrated timetable							
	Calculation of transport needs							
Work placement	Not applicable							

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