

## Subject card

Subject name and code	, PG_00065284							
Subject name and code Field of study	Transport							
Date of commencement of						2024/2025		
studies	i culuary 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	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	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 i classes including		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		0.0		0.0		30
	Transmission of the n	nessage on ve	rtical managen	nent in rail traffi	С	<del></del>		
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[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_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_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		
	[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_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		

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Subject contents	LECTURE							
	Dulas and mass duma for marin train to the							
	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	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	What is train and shunting?							
tasks being completed	Cyclical, integrated timetable							
	Calculation of transport needs							
Work placement	Not applicable							

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