

Subject card

Subject name and code	Transport systems and processes, PG 00044638								
Field of study	Transport								
Date of commencement of	October 2023	Academic year of			2025/2026				
studies			realisation of subject			2020/2020			
Education level	first-cycle studies		Subject gro	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	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor								
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	15.0	15.0	0.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation i consultation h			tudy	SUM	
	Number of study hours	60	5.0		35.0		100		
Subject objectives	The aim of the course is to provide increased knowledge in the field of transport systems and processes . Students gain knowledge of the theoretical basis of the transport system , rules and methods for modeling transport subsystems or components and subsystems of the organization and management of transport. In addition, students gain the skills to construct a transport model for the selected area (city, county) .								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W17] has proficiency in transport systems as appropriate for their specialty		The student has ordered knowledge of the theoretical basis of the transport system and its subsystems. It also has a knowledge of the principles of modeling subsystems transport and transport processes.						
	[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		Student is able to develop a transport model of the selected area (city, county), using the most popular computer program. Student is able to assess the transport system designed to develop a transport model using the selected area (city, county), using the most popular computer program.						
Subject contents	Transport systems - synthesis . Transport models - general characteristics . Transport models - practical applications , the program VISUM . Theoretical basis of operation of transportation systems. Transport systems modeling elements . Measurement and evaluation of the functioning of the transport systems and its components. Modeling of the transport network. Organization and management of road traffic. Organization and management of rail transport . Organization and logistics management . Organization and management of air transport. Systems for urban and regional transport . Characterization and modeling of the transport system and its environment. Characterization and modeling of traffic organization and transport process . Characterization and modeling of the development of transport systems .								
Prerequisites and co-requisites	Students should complete the following courses : Fundamentals of Transport Systems .								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Lectures		60.0%			50.0%			
	Laboratory	50.0%			50.0%				

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Recommended reading	Basic literature	 Leszczyński J.: Modelowanie systemów i procesów transportowych. Oficyna Wydawnicza PW, Warszawa 1999 r. Rydzkowski W. Wojewódzka-Król K.: Transport, PWN, 2007 r. Jacyna M.: Modelowanie i ocena systemów transportowych. Oficyna Wydawnicza PW, Warszawa 2009 r. Dorosiewicz S.: Potoki ładunków w sieciach transportowych. ITS Warszawa 2010. 			
	Supplementary literature	Najder J.: Transport międzynarodowy PWE 2008.			
		2. Grzywacz W. i inni: Polityka transportowa WUG 2000.			
		3. Czasopismo: Transport Miejski i Regionalny			
		4. Transport samochodowy ładunków. ITS Warszawa 2009.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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