

Subject card

Subject name and code	Transport systems and processes, PG_00044638								
Field of study	Transport								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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	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 dr inż. Krystian Birr								
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	oratory Project		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 in classes include plan		Participation in consultation hours		Self-study		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_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.						
	[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.						
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	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Laboratory		50.0%				50.0%		
	Lectures		60.0%			50.0%	50.0%		

Data wydruku: 04.05.2024 07:22 Strona 1 z 2

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	1. 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	

Data wydruku: 04.05.2024 07:22 Strona 2 z 2