

Subject card

Subject name and code	Systems of Geographical Information in Transport, PG_00040988								
Field of study	Transport								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study			
						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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Adam Inglot							
	Teachers		mgr inż. Łukasz Jeliński						
			dr inż. Adam						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study SUM				
	Number of study hours	45		5.0		25.0		75	
Subject objectives	Presentation of the possibilities of using GIS in transport as a modern data processing tools. Presentation of data acquisition methods. GIS support in investments.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_K02] makes competent and ethical decisions, caring for the public interest and maintaining economic, social and environmental values		Can make computer graphics with a map component poraz descriptive elements.			[SK5] Assessment of ability to solve problems that arise in practice			
	[K7_U03] formulates research problems and selects appropriate analytical methods for their effective solution, using advanced IT tools, and critically evaluates the obtained results		Able to perform simple spatial data analysis in transportation-related tasks.			[SU5] Assessment of ability to present the results of task			
	[K7_W06] identifies reliable sources of information relevant to the analyzed issues		He learns about data sources and how to assess their reliability and suitability for spatial analysis.			[SW3] Assessment of knowledge contained in written work and projects			
	[K7_W04] analyzes complex problems in-depth based on reliable data and properly selected methods, obtaining logical solutions		Learns GIS spatial analysis tools related to transportation.			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Coordinate systems; Reference systems; Data in GIS; Generalizing; Color attributes; Directive INSIRE, GIS - road analyzes, Implementation of road geoinformation systems								
Prerequisites and co-requisites	ability to use object programs								
Assessment methods and criteria	Subject passin	Passing threshold			Percentage of the final grade				
	the presentation		80.0%			30.0%			
	verification		60.0%			70.0%			

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Recommended reading	Basic literature	Dariusz Gottlieb, Adam Iwaniak, Robert Olszewski : GIS-Obszary zastosowań. Wydawnictwo Naukowe PWN, Warszawa 2007,		
		INSPIRE i Krajowa Infrastruktura Informacji Przestrzennej, Podstawy teoretyczne aspekty praktyczne, GUGIK, Warszawa 2012		
		Jacek Urbański: GIS w badaniach przyrodniczych. Wydawnictwo UG, Gdańsk 2008		
		Pyrchla J., Kowalewski M., Leyk M., Przyborski M., Siedlik J., Zieliński M., Sieciocentryczny system informacji geograficznej Zatoki Gdańskiej. Wspomagania działań operacyjnych morskich służb państwowych. Wydawnictwo Polskiego Internetowego Informatora Geodezyjnego, Seria GEOMATYKA, Gdańsk, 2014,		
		Dawid E. Dawis: GIS dla każdego. ESRI Polska, Warszawa 2004		
		Roger Tomlinson: Rozważania o GIS. ESRI Polska, Warszawa 2007		
	Supplementary literature	Articles from magazines: IET INTELLIGENT TRANSPORT SYSTEMS; TRANSPORTATION PLANNING AND TECHNOLOGY, TRANSPORTATION RESEARCH PART A-POLICY AND PRACTICE		
	eResources addresses	Adresy na platformie eNauczanie:		
		Systemy Informacji Geograficznej w Transporcie - (WILiŚ, T, st. II, sem. 1) - rok 2023/2024 - Moodle ID: 38607 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38607		
Example issues/ example questions/ tasks being completed	Data entry methods; Characterize the differences between a raster map and a vector map; Name and describe standards for storing environmental data in the GIS system; Types of generalization; Marks on the map and their features; Characterize the colour attributes.			
Work placement	Not applicable			

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