

Subject card

Subject name and code	Geographical Information Systems, PG_00056235							
Field of study	Transport and Logistics							
Date of commencement of studies			Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor		dr inż. Aleksander Kniat					
of lecturer (lecturers)	Teachers dr inż. Aleksander Kniat							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	 		Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30
	E-learning hours inclu	uded: 0.0						<u> </u>
Learning activity and number of study hours	Learning activity	ing activity Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30	4.0			41.0		75
Subject objectives	Presentation of geographic information analysis and synthesis methods in a GIS system.							
Learning outcomes	Course outcome Subject outcome Method of verification							
	[K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of means and systems of transport		Student is able to apply tools and methods of GIS system to design a maritime transportation object or system.			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		
	K6_U03		Student is able to perform a spatial analysis using GIS system concerning exploitation of maritime transportation objects or systems.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools		
Subject contents	Definition and applications of Geographic Information Systems (GIS). Data in GIS system: spatial data and attributes. Storing and using data, data sources. Vector vs. raster objects. Coordinate's systems. Standard data formats. Vizualization: maps, layers, symbols, labels. Data classification. Data analysis and synthesis, processing data from different sources.							
Prerequisites and co-requisites	Basic knowledge about operating system and file system usage.							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	project		60.0%		100.0%			
Recommended reading			Davis D. GIS dla każdego 2009 Gaździcki J. Systemy Informacji przestrzennej 1990					
	Supplementary literature		Litwin L., Myrda G., Systemy Informac danymi przestrzennymi w GIS, SIP, S					
	eResources addresses		. , ,	Uzupełniające				
		Adresy na platformie eNauczanie:						

Data wygenerowania: 23.02.2025 21:57 Strona 1 z 2

Example issues/ example questions/ tasks being completed	spatial analysis to select objects that satisfy some criteria cartogram presenting statistic data
Work placement	Not applicable

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Data wygenerowania: 23.02.2025 21:57 Strona 2 z 2