

Subject card

Outlies to see a seed and a	Digital cartography PC 00045752								
Subject name and code	Digital cartography, PG_00045752								
Field of study	Geodesy and Cartography								
Date of commencement of studies	February 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	Department of Geodesy -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		dr inż. Adam Inglot						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	aboratory Project		Seminar	SUM	
	Number of study hours	10.0	10.0	0.0	0.0	0.0		20	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/index.php?id=9592								
Learning activity and number of study hours	Learning activity		articipation in didactic asses included in study an		Participation in consultation hours		udy	SUM	
	Number of study hours	20		8.0		22.0		50	
Subject objectives	Acquiring by the student the skill to create thematic maps on a selected topic using IT tools, using modern methods of geo-visualization in selected GIS software.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_W14] has deep knowledge in the field of qualitative and quantitative methods of cartographic presentation, he knows methods of visualization of relief, graphic variables used to visualize geodata		The student knows the basics of developing a geo questionnaire. He knows the latest methods of generalization of spatial database objects. The student knows standard cartographic studies.			[SW2] Assessment of knowledge contained in presentation			
	[K7_U10] can develop a thematic map using IT tools, use modern methods of geovisualisation within the selected software GIS environment, use the database in the thematic maps development.		The student is able to develop a thematic map, an interactive map for entering data through a web portal. The student is able to draw up a choropleth map and a diagrams in the desktop software as well as on map portals.			[SU4] Assessment of ability to use methods and tools			
Subject contents	The lecture covers the following issues: Multi-resolution databases, building map portals, cartographic compilations in the national geoportal, map creation process, minimum drawing size, generalization operators, data acquisition using map portals, development of a geo survey. Classes include: developing cartographic visualizations in ArcGIS Pro, publishing data in ArcGIS Online, creating a geo survey on the "Survey 123".								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Creation of a cartographic internet portal		70.0%			50.0%			
	Test		70.0%			50.0%			

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December and adviser of the se	Pagia literatura	1 D. A. Longloy, M. E. Coodobild, D. J. Maguiro, D. M. Bhind, C.C.			
Recommended reading	Basic literature	P. A. Longley, M. F. Goodchild, D. J. Maguire, D. W. Rhind - GIS. Theory and practice Wydawnictwo Naukowe PWN, Warszawa, 2008			
		2. J. Urbański - GIS in natural research. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk, 2008			
		3. J. Adamczyk, K. Będkowski - Digital methods in remote sensing, Wydawnictwo SGGW, Warszawa, 2007			
		R. J. Wilson Introduction to graph theory, Wydawnictwo Naukowe PWN, Warszawa 2012			
		5. J. Smith, P. Smith - Environmental modeling an introduction, Oxford University Press, 2007			
	Supplementary literature	P.M. Mather, M. Koch - Computer Processing of Remotely-Sensed Images, Wiley, 2004			
		2. J. G. Liu, P. J. Mason - Computer Processing of Remotely-Sensed Images, Wiley, 2009			
		J.R. Jensen - Introductory Digital Image Processing, Prentice Hall, 2005			
		P.A. Zandbergen Python Scripting for ArcGIS, Esri Press, Redlands, 2013			
		5. J. Lawhead Lerning Geospatial Analysis with Python, Packt Publishing, Birmingham, 2013			
5	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
	1. The problem of data harmonization in multi-resolution databases.2. What is WMS and what is its use.3. Present the operation of the Douglas-Peucker curve simplification operator.4. Present the way the operator works by simplifying buildings using the Sester method.				
Work placement	Not applicable				

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