

Subject card

Subject name and code	Basics of Digital Cartography, PG_00047974							
Field of study	Informatics							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2027/2028		
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	4		Language of instruction		Polish			
Semester of study	7		ECTS credits		3.0			
Learning profile	general academic profile		Assessmer	essment form		assessment		
Conducting unit	Department of Geoinformatics -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jerzy Demkowicz					
	Teachers		dr inż. Jerzy Demkowicz					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project Seminar		Seminar	SUM
	Number of study hours	30.0	0.0	15.0	0.0		0.0	45
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didact classes included in st plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		3.0		27.0		75
Subject objectives	Cartografphic Software Implemetation							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_U12] is able, to an advanced degree, to analyze the operation of components and systems related to the field of study, and to measure their parameters and study their technical characteristics, as well as to plan and carry out experiments related to the field of study, including measurements and computer simulations, and to interpret the obtained results and draw conclusions [K6_W04] knows and understands, to an advanced	The student is able to analyze and design the operation of digital map systems and cartographic databases at an advanced level, interpret and verify cartographic data contained in the database and draw conclusions. Creating simple systems for the presentation of digital maps,	[SW1] Assessment of ability to analyse information				
	extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices	scaling, moving the area of the digital map.					
	[K6_K02] is ready to critically assess possessed knowledge and acknowledge the importance of knowledge in solving cognitive and practical problems	Digital map presentation using style sheets.	[SK2] Assessment of progress of work				
	[K6_W03] knows and understands, to an advanced extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum	Implementation of a simple digital map database.	[SW1] Assessment of factual knowledge				
Subject contents	Modern Cartography Modern chart Reference GRS-80 i WGS-84, Elily Distances: orthodroma, locsodrom Cartographic transformation Mercator & UTM Raster charts Vector charts						
	9. Modern GIS Databases 10. Database strucuters and SQL 14. Cassading						
	11. Geocoding 12. Chart production process						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Lecture	51.0%	50.0%				
	Lab	51.0%	50.0%				
Recommended reading Basic literature		Biancetti F. "Introduction to Digital Cartography", C-Map, La Spezia 2004 Tatuk GIS Developer Kernel .NET Edition"					
		Stepnowski A. "Systemy akustycznego monitoringu środowiska morskiego", Gdańskie Towarzystwo Naukowe, Gdańsk 2001					

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	Supplementary literature	Dokumentacja protokołu WMS - http://mapserver.org/orc/ wms_server.html Dokumentacja "Tatuk GIS Developer Kernel .NET Edition" Dokumentacja techniczna GeoServer - www.geoserver.org Dokumentacja techniczna oprogramowania GobalMapper-www.globalmapper.com
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Object Digital Chart Database	
Work placement	Not applicable	

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