

Subject card

Subject name and code	Basics of Digital Cartography, PG_00047974							
Field of study	Informatics							
Date of commencement of studies	October 2023		Academic year of realisation of subject		2026/2027			
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		Assessme	sessment 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		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 didactic classes included in stud plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		3.0		27.0		75
Subject objectives	Cartografphic Software Implementation							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_U05] can plan and conduct experiments related to the field of study, including computer simulations and measurements; interpret obtained results and draw conclusions	Digitization of the digital map.	[SU1] Assessment of task fulfilment				
	[K6_U41] can produce, test or evaluate software using modern programming platforms, tools, languages and paradigms of different levels, as well as use software packages supporting scientific and research processes as well as business decision- making processes and teamwork	Ability to prepare and verify data for creating a digital map database system.	[SU1] Assessment of task fulfilment				
	[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				
	[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_W04] Knows and understands, to an advanced 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	Creating simple systems for the presentation of digital maps, scaling, moving the area of the digital map.	[SW1] Assessment of factual knowledge				
Subject contents	1. Modern Cartography 2. Modern chart 3. Reference GRS-80 i WGS-84, Elipsoidal hieght 4. Distances: orthodroma, locsodrome, geodesic 5. Cartographic transformation 6. Mercator & UTM 7. Raster charts 8. Vector charts						
	9. Modern GIS Databases 10. Database strucuters and SQL						
	11. Geocoding						
	12. Chart production process						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Lab	51.0%	50.0%				
	Lecture	51.0%	50.0%				

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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
	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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