



Subject card

Subject name and code	Basics of Digital Cartography, PG_00047974						
Field of study	Informatics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2028/2029		
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		Assessment form		assessment		
Conducting unit	Department Of Geoinformatics -> Faculty Of Electronics Telecommunications And Informatics -> Wydział Politechniki Gdańskiej						
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 study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	45		3.0		27.0	75
Subject objectives	Cartografhic Software Implemetation						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[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		
	[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		

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 and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Lab	51.0%	50.0%
	Lecture	51.0%	50.0%
Recommended reading	Basic literature	1. Biancetti F. "Introduction to Digital Cartography", C-Map, La Spezia 2004 2. "Tatuk GIS Developer Kernel .NET Edition" 3. Stepnowski A. "Systemy akustycznego monitoringu środowiska morskiego", Gdańskie Towarzystwo Naukowe, Gdańsk 2001	
	Supplementary literature	1. Dokumentacja protokołu WMS - http://mapserver.org/orc/wms_server.html 2. Dokumentacja "Tatuk GIS Developer Kernel .NET Edition" 3. Dokumentacja techniczna GeoServer - www.geoserver.org 4. 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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