

Subject card

Subject name and code	Introduction to cartography and GIS - lecture, PG_00201238						
Field of study	Spatial Management						
Date of commencement of studies	October 2027		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		4.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Division of Regional Development -> Institute of Socio-Economic Geography and Spatial Management -> Faculty of Social Sciences -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ada Wolny-Kucińska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		5.0		65.0	100
Subject objectives	Acquiring knowledge of cartography and graphic presentation of phenomena in space; preparation for identifying and solving to identify and solve cognitive problems related to their profession in accordance with the latest knowledge in the field of spatial management.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GPL3_W07] knows and understands the methods and tools for shaping spatial development		lists and characterises planning and land-use planning tools		[SW4] test/exam - oral or written		
	[GPL3_U03] selects appropriate sources of information and, on this basis, gives opinions on the development of space for a specific area with particular regard to the principles of sustainable development and spatial order		select area-specific sources of spatial information		[SU4] test/exam - oral or written		
	[GPL3_U07] uses a foreign language practically in the field of spatial management in accordance with the requirements specified for level B2 of the Common European Framework of Reference for Languages		uses specialist English terminology used in GIS and cartography in the international community		[SU4] test/exam - oral or written		
	[GPL3_W04] knows and understands at an advanced level, the aims and conditions of using basic methods of quantitative analysis and interpretation of spatial processes and phenomena		lists the basic quantitative methods and considerations for their use in analysing and interpreting spatial processes and phenomena		[SW4] test/exam - oral or written		

Subject contents	Problems of the lecture: Definitions, tasks and divisions; The essence of cartographic communication; Contemporary understanding of the terms map, cartography and topography; Map elements; Types of maps; Mathematical cartography; Selection of cartographic presentation methods; Qualitative methods of cartographic data presentation; Quantitative methods of cartographic data presentation; Data sources in spatial information systems; Photogrammetric and remote sensing presentation methods; Spatial planning methods.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test of open questions	51.0%	100.0%
Recommended reading	Basic literature	Czarnecki K.: Geodezja Współczesna W Zarysie. Wydawnictwo Gall, Katowice 2010.Jagielski A.: Geodezja I. Wydawnictwo Geodpis, Kraków 2005.Jagielski A.: Geodezja II. Wydawnictwo Geodpis, Kraków 2005.Iwaniak A., Olszewski R., Gotlib D., 2008. GIS. Obszary zastosowań. Wydawnictwo Naukowe PWN, Warszawa.Kidner D., Higgs G., White S. (red.), 2003. Socio-Economic Applications of Geographic Information Science. Tay-lor&Francis Group, London-NewYork.Craig W.J., Harris T.M., Weiner D. (red.), 2002. Community Participation and Geographic Information Systems. Tay-lor&Francis Group, London-New York.A.2. studiowana samodzielnie przez studentaKunz M. (red.), 2007. Systemy Informacji Geograficznej w praktyce. Studium zastosowań. Wydawnictwo Uniwer-sytetu Mikołaja Kopernika, Toruń.Wang F., 2006. Quantitative Methods and Applications in GIS, Taylor&Francis Group, London-New York.Longley P., Clarke G. (red.), 1995. GIS for business and service planning. John Wiley&Sons, New-York.	
	Supplementary literature	Longley P. A. I Inni: Gis. Teoria I Praktyka. Wydawnictwo Naukowe PWN, 2008.Przewslocki S.: Geomatyka. Wydawnictwo Naukowe PWN, 2008.Birkin M., Clarke G., Clarke M., Wilson A., 1996. Intelligent GIS. Location decisions and strategic planning. John Wiley&Sons, New-York.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	lecture: credit - written test of open questions (termin zaliczeniowy + poprawkowy)		
Work placement	Not applicable		

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