

Subject card

Subject name and code	, PG_00149823						
Field of study	Socio-economic geography with elements of GIS						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Humanistic-social subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		mgr inż. Joanna Jaczewska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	45.0	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		30.0		50.0	125
Subject objectives	Acquisition of the ability to carry out advanced spatial socio-economic analyses using a programme from the GIS environment Acquisition of the ability to carry out statistical analyses using a programme from the GIS environment Correct presentation of spatial data on thematic maps						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GSEMU2_W04] in-depth methods and tools (quantitative, qualitative, cartographic) of research in socio-economic geography	knows and understands in depth methods of cartographic presentation of spatial data	[SW2] presentation/project/paper/report
	[GSEMU2_U03] select and apply appropriate social research methods (including statistical and cartographic ones) and research tools with particular emphasis on information technologies and GIS software	selects and applies appropriate GIS software methods and tools to present population, economic and communication issues	[SU6] demonstration of practical skills
	[GSEMU2_K01] critically assess knowledge and received content in the field of socio-economic geography and Geographic Information Systems	verifies and critically evaluates the issues analysed and presented resulting from the use of GIS tools	[SK1] oral statement/conversation/discussion
	[GSEMU2_U02] properly select sources and information derived from them, with particular regard to sources of spatial information; evaluate them critically and interpret them creatively	correctly selects spatial data sources, imports data from the CSO and GUGiK into the GIS environment and critically evaluates them	[SU6] demonstration of practical skills
	[GSEMU2_U04] adapt existing research tools and methods to solve complex and unusual problems occurring in the anthropogenic environment	adapts research methods and tools from the GIS environment to perform spatial analyses of real estate and commercial and service establishments and other types of facilities	[SU6] demonstration of practical skills
Subject contents	B. Problems of the exercises:B.1 Use of GIS in the investigation of property losses caused by a natural disasterB.2 Finding the best location for retail and service establishments and other types of facilitiesB.3 Connecting databases to a programme from the GIS environment.B.4 Create cartograms and cartodiagrams of population and economic issues. Publishing the results of analyses on the webweb, using Web-GIS tools.B.5 Visualisation of travel times to urban centres.B.6 Selected methods for automating spatial data processing and analysis.B.7 Internet-based spatial data sources and methods for their extraction.		
Prerequisites and co-requisites	knowledge of the basics of cartographic presentation of data, ability to perform simple statistical analyses, knowledge of English at anintermediate level		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project or presentation	51.0%	100.0%
Recommended reading	Basic literature	Literatura wymagana do ostatecznego zaliczenia zajęć (zdania egzaminu):Iwaniak A., Olszewski R., Gotlib D., 2008. GIS. Obszary zastosowań. Wydawnictwo Naukowe PWN, WarszawaKidner D., Higgs G., White S. (red.), 2003. Socio-Economic Applications of Geographic Information Science. Taylor&Francis Group, London-NewYork.Pieniążek M., Zych M., 2017. Mapy statystyczne. Opracowanie i prezentacja danych. Główny Urząd Statystyczny, Warszawa	
	Supplementary literature	Kunz M. (red.), 2007. Systemy Informacji Geograficznej w praktyce. Studium zastosowań. Wydawnictwo Uniwersytetu Mikołaja Kopernika, Toruń.Bolstad P., 2016. GIS Fundamentals: A First Text on Geographic Information Systems. Fifth Edition, New YorkLongley P.A, Goodchild M.F., Rhind D.W. 2008. GIS. Teoria i praktyka. Wydawnictwo Naukowe PWN. Warszawa.Peterson, G. (2009) GIS Cartography: A Guide to Effective Map Design, CRC Press. Boca Raton.Masik G., 2017, Zróżnicowanie poziomu życia w województwie pomorskim [w:] J. Hryniewicz, A. Potrykowska (red.), Sytuacja demograficznawojewództwa pomorskiego jako wyzwanie dla polityki społecznej i gospodarczej, Rządowa Rada Ludnościowa, Warszawa, t. 14, s. 218-239.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	completion of a dissertation - project or presentation-Completion of a dissertation, i.e. a socio-economic analysis and itspresentation on a map		
Work placement	Not applicable		

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