

**Subject card**

<b>Subject name and code</b>	Advanced GIS, PG_00149782						
<b>Field of study</b>	Spatial Management						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2024/2025		
<b>Education level</b>	Master's studies	<b>Subject group</b>			Obligatory subject group in the field of study Humanistic-social subject group		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	1	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	2	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Grzegorz Masik				
	<b>Teachers</b>		dr Sandra Żukowska dr Grzegorz Masik				
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Additional information: Classes						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study			SUM
	<b>Number of study hours</b>	30	15.0	15.0			60
<b>Subject objectives</b>	Acquiring the ability to conduct socio-economic and environmental analyzes using IT tools  Correct presentation of statistical data on thematic and physical-geographic maps						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>		<b>Method of verification</b>		
	[GPMU2_W04] in-depth methods and tools (quantitative, qualitative, cartographic) of research in spatial management		Knows and understands in-depth methods and tools from the GIS environment used for research in spatial management		[SW5] implementation of a problem task		
	[GPMU2_K01] critically assess possessed knowledge and received content		The graduate of second-cycle studies has acquired the ability to select and apply appropriate methods to analyze the effects of natural phenomena using GIS tools.		[SK8] observation of student's independent or team work		
	[GPMU2_U03] choose and use appropriate methods (including statistics) and research tools with particular emphasis on information technology and GIS software		He can make various types of cartodiagrams and choropleth maps.		[SU5] implementation of a problem task		
<b>Subject contents</b>	A. Issues on classes: A.1 Application of GIS for spatial analysis of selected parameters A.2 The use of GIS for the presentation and analysis of natural, social and economic phenomena						

Prerequisites and co-requisites	knowledge of the basics of cartographic data presentation		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Number of completed projects	51.0%	100.0%
Recommended reading	Basic literature	Iwańczak B., 2020, QGIS 3.14. Map creation and analysis, Helion Publishing House.  Szczepanek R., 2017. Spatial information systems with QGIS. PK Publishing House, Kraków.  Masik G., 2017. Differences in the standard of living in the Pomeranian Voivodeship (in:): The demographic situation of the Pomeranian Voivodeship as a challenge for social and economic policy / Hryniewicz Józefina, Potrykowska Alina (ed.), vol. 14, Warsaw, Government Population Council, p. 218-239, ISBN 978-83-7027-659-1	
	Supplementary literature	Iwaniak A., Olszewski R., Gotlib D., 2008. GIS. Areas of application. PWN Scientific Publishing House, Warsaw. Kunz M. (ed.), 2007. Geographic Information Systems in practice. Application study. Nicolaus Copernicus University Publishing House, Toruń.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Indicate the best location for a community center. Make a map of travel times to airports in Poland. Present socio-economic phenomena using a choropleth map and cartodiagram. Draw a map of areas and forms of nature protection.		
Work placement	Not applicable		

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