University of Gdańsk

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 2026	Academic year of realisation of subject	2026/2027
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_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
[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_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_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

<table>
<tr><td>Subject contents</td><td colspan="2">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 carthography; 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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="2"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Test of open questions</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>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.</td></tr>
<tr><td>Supplementary literature</td><td>Longley P. A. I Inni: Gis. Teoria I Praktyka. Wydawnictwo Naukowe PWN, 2008.Przewsłocki 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.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">lecture: credit - written test of open questions (termin zaliczeniowy + poprawkowy)</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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