University of Gdańsk

# Subject card

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|---|---|---|---|
| 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<br>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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