University of Gdańsk

Subject card

Subject name and code	Environmental basis of spatial management – exercises, PG_00191726		
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	2	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr Barbara Korwel Lejkowska	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	30.0	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	0.0	45.0	75

Subject objectives

Acquiring the ability to obtain spatial information from various analogue and digital sources, learning about thematic cartographic studies, acquiring the ability to work with maps in the field of natural environment components, including terrain topography, geomorphological and hydrological conditions, and climate.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GPL3_W08] knows and understands the principles of operating basic equipment, devices and software used to obtain and process geographical information and spatial planning	knows the basic hardware and software necessary for environmental analyses in spatial management	[SW2] presentation/project/paper/ report
[GPL3_K04] is ready to initiate and actively participate in activities for the benefit of spatial order and sustainable development of the region, country and Europe	explain the conditions for sustainable development and environmental protection measures in spatial planning and development	[SK2] presentation/project/paper/ report [SK5] implementation of a problem task
[GPL3_U04] makes the correct selection of basic quantitative methods (including field research), uses them in the analysis of spatial diversity of natural, social or economic phenomena and also makes a correct interpretation of the results on the basis of the specificity of selected methods	selects and applies appropriate methods for environmental and sustainable development analyses	[SU2] presentation/project/paper/ report

Subject contents	Introduction and analysis of a topographic map Analysis of geomorphological conditions and preparation of a map of such conditions Analysis of selected conditions related to topoclimate Analysis of lithological conditions and preparation of a map based on a geological map of surface formations Analysis of a hydrographic map and preparation of a map of hydrographic conditions Analysis of the sozological map and preparation of a map of sozological conditions Analysis of the state and threats to the environment familiarisation with the results of WIOŚ/GIOŚ research Synthesis of studies threshold analysis of the content of partial maps conditions and limitations for spatial management
Prerequisites and co-requisites	knowledge, skills and competences at the general secondary school level basics of working with GIS software, learned in semester I

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
project	50.0%	70.0%
accompanying tasks	100.0%	20.0%
presence	90.0%	10.0%

Recommended reading

Basic literature	Contents of legal acts: • Act on Spatial Planning and Development of 2003 • Environmental Protection Act of 2001. • Nature Conservation Act of 2004. • Water Law Act of 2017 • Geological and Mining Law Act of 2011
Supplementary literature	Korwel-Lejkowska B., 2016, Analysis of selected threats to the development of settlements in municipalities of the Pomeranian Province in the context of sustainable development, (in:) Problems of Landscape Ecology, vol. XLII, PAEK, pp. 87100. Racinowski R., 1987, Introduction to the physiography of settlement, PWN, Warsaw. Sołowiej D., 1992, Fundamentals of the methodology of assessing the human natural environment, Wyd. Nauk. UAM, Poznań. Szczepanek R., 2017. Spatial Information Systems with QGIS Parts 1 and 2, Tadeusz Kościuszko University of Technology in Krakow Faculty of Environmental Engineering Institute of Engineering and Water Management. Krakow.
eResources addresses	

Example issues/ example questions/ tasks being completed	• spatial development conditions resulting from land cover; • spatial development conditions resulting from terrain relief; • hydrological conditions for spatial development; • spatial development conditions resulting from environmental protection.
Work placement	Not applicable

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