University of Gdańsk

Subject card

Subject name and code	, PG_00149744		
Field of study	Spatial Management		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
Education level	Bachelor'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	3	Language of instruction	Polish
Semester of study	5	ECTS credits	3.0
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 hab. Tomasz Michalski	
	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	25.0	100

Subject objectives	To gain knowledge of the tools, principles and conditions of property management, including the acquisition of property valuation skills. To gain knowledge of the conditions for technical infrastructure planning, to acquire knowledge of the possibilities for using GIS tools in technical infrastructure planning, and to practise such applications.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GPL3_K06] care for the achievements and traditions of the profession, and comply with the principles of professional ethics by themselves and to demand that from others	identifies and resolves ethical dilemmas related to the performing work in the field of real estate management and planning of technical infrastructure	[SK8] observation of student's independent or team work
[GPL3_U03] select appropriate sources of information and on this basis give opinions on the development of space for a specific area with particular regard to the principles of sustainable development and spatial order	analyzes proposed solutions to problems in the field of spatial real estate management and infrastructure planning technical	[SU3] text preparation/written work [SU5] implementation of a problem task
[GPL3_W08] principles of operating basic equipment, devices and software used to obtain and process geographical information and spatial planning	presents the principles of operating specialized software used in tasks related to planning and spatial development spatial development	[SW2] presentation/project/paper/ report [SW3] text preparation/written work
[GPL3_K03] identify and resolve cognitive problems related to the profession in accordance with the latest knowledge in the field of spatial management, including expert opinions	performs, with the use of expert knowledge, the current tasks of the of authorities at various levels in the field of real estate management	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
[GPL3_U06] use specialist language in a debate with specialists in the field of spatial planning and management	solves engineering tasks in the planning of technical infrastructure with the use of computer analysis and simulation using using GIS software	[SU3] text preparation/written work
[GPL3_U09] plan and implement lifelong learning independently	analyses his/her skills and possibilities for further development after graduation	[SU1] oral statement/conversation/ discussion
[GPL3_W09] at an advanced level, subsystems of the natural environment and the human life environment, interactions and contemporary trends of changes between these subsystems	characterizes the basic processes of the life cycle of elements of the technical infrastructure	[SW4] test/exam - oral or written [SW3] text preparation/written work
[GPL3_W07] forms, methods and tools for shaping spatial development	lists the forms, methods and tools of real estate management and technical infrastructure planning	[SW4] test/exam - oral or written [SW3] text preparation/written work

Subject contents

Basics of using ArcGIS Pro software.
Digitisation of cartographic content using ArcGIS Pro software.
Spatial data analysis.
Presentation of spatial data.
Basic technical infrastructure systems and how they work.
Markings, symbolisation, and descriptions of technical infrastructure networks and facilities.
Planning the development of technical infrastructure networks estimating demand, basic calculations using GIS tools.
Introduction to property management. Characteristics of property.
Research and analysis of the property market. Fundamentals of property valuation approaches, tools and techniques.

Prerequisites and co-requisites

knowledge and skills provided by the syllabuses for the subjects Methods of Spatial Analysis I and Methods of Spatial Analysis II

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
exercises (tasks)	51.0%	100.0%

Recommended reading

Basic literature

Bończak-Kucharczak E., 2020. Ustawa o gospodarce nieruchomościami. Wolters Kluwer, Warszawa.
Kucharska-Stasiak E., 2007. Nieruchomość a rynek. Wydawnictwo Naukowe PWN, Warszawa.
Źróbek S., Źróbek R., Kuryj J., 2012. Gospodarka nieruchomościami z komentarzem do wybranych procedur. Wyd. Gall, Warszawa.
Kicman A., Klepacka B., 1991, Infrastruktura techniczna w planowaniu przestrzennym, Politechnika Białostocka, Białystok;

	Supplementary literature	Bieniek G., Rudnicki S., 2005. Nieruchomości. Problematyka prawna, Wyd. LexisNexis, Warszawa. Bryx M., 2009. Rynek nieruchomości. System i funkcjonowanie, Poltext, Warszawa. Cymerman R., Cymerman J., 2016. Gospodarka nieruchomościami w zadaniach. Wydawnictwo PK, Koszalin. Cymerman R., Hopfer A., 2012. System, zasady, procedury wyceny nieruchomości. PFSRM, Warszawa. Nowak M., 2017, Gospodarka nieruchomościami w gminie. Kluczowe problemy prawne. CH Beck, Warszawa. Ostrowska D., Staniszewska A., Spigarska E., Staśkiel M. i inni, 2020. Rynek nieruchomości w Polsce. Teoria i praktyka. Wolters Kluwer, Warszawa. Sobolewska-Mikulska K., 2021. Gospodarka nieruchomościami i kataster. Wybrane problemy. Wyd. PW, Warszawa.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Completion of at least 70% of the tasks set during class hours + achieving a minimum of 51% of the marks for the final assessment task. The assessment will cover proficiency in using the software, knowledge of property market analysis tools and the ability to apply them, plus the ability to use GIS tools in technical infrastructure planning.	
Work placement	Not applicable	

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