

Subject card

Subject name and code	Commercialization of research results, PG_00135515						
Field of study	Physical geography and geoinformation						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master'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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Karol Śledzik				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		15.0		30.0	60
Subject objectives	1. Getting to know the concepts of innovation and commercialization in scientific research.2. Indication of methods of commercialization of scientific research results and the benefits derived from them						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GFGMU2_K01] critical assessment of knowledge in the field of Earth and environmental sciences and geoinformation, its completion and verification through critical analysis of scientific literature	critical assessment of your knowledge in the field of Earth and environmental sciences and geoinformation, its supplementation and verification by critical reading of the literature	[SK4] test/exam - oral or written
	[GFGMU2_U02] precisely and appropriately use terminology in the field of physical geography and geoinformation in oral statements and written works	fluently and appropriately use terminology in the field of physical geography and geoinformation in oral statements and written works	[SU4] test/exam - oral or written
	[GFGMU2_U03] effectively use selected scientific literature in the field of physical geography and geoinformation, both in Polish and English	effectively use carefully selected scientific literature in the field of physical geography and geoinformation, both in Polish and English	[SU4] test/exam - oral or written
	[GFGMU2_W07] organizational structure of science, legal and economic principles of its functioning, general principles of creating and developing forms of individual entrepreneurship using knowledge in the field of physical geography and geoinformation	organizational structure of science, legal and economic principles of its functioning, general principles of creating and developing forms of individual entrepreneurship using knowledge in the field of physical geography and geoinformation	[SW1] oral statement/conversation/discussion
	[GFGMU2_K03] accepting responsibility for group work assuming various roles in it, participating in preparation of scientific projects, taking responsibility for the equipment and safety rules, active developing of professional competences and knowledge in Earth and environmental sciences and geoinformation, including interdisciplinarity, as well as developing the principles of professional ethics, respecting copyright rules	accepting responsibility for working in a group by assuming various roles, participating in the preparation of scientific projects, accepting responsibility for the entrusted equipment and work safety, actively expanding professional competences and updating knowledge in Earth and environmental sciences and geoinformation, enriching them with an interdisciplinary dimension, as well as observing and developing the principles of professional ethics, including compliance with copyright in one's own and other people's activities	[SK4] test/exam - oral or written
Subject contents	Topics of the lecture 1. Innovation and commercialization in scientific research. 2. Ways of commercializing research results. 3. Legal and financial aspects of commercialization of research results. 4. Technology Transfer Center and its tasks.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		50.0%	100.0%

Recommended reading	Basic literature	Urmański J., 2016, Komercjalizacja wyników badań. Spojrzenie inwestorów i naukowców. NCBiR, https://www.ncbr.gov.pl/fileadmin/user_upload/import/other/raport_komercjalizacja_badan_2016.pdf Stec, Piotr. <i>Komercjalizacja wyników badań naukowych</i>. Wolters Kluwer, 2017. Kuśmierz, Andrzej, and Nikolay Kirov. "Komercjalizacja wyników badań naukowych: jak to robią inni?." <i>Master of Business Administration</i> 18, no. 1 (2010): 102-115. Trzmielak, Dariusz. <i>Komercjalizacja wiedzy i technologii-determinanty i strategie</i>. Wydawnictwo Uniwersytetu Łódzkiego, 2013.
	Supplementary literature	Komercjalizacja wyników badań naukowych, Centrum Transferu Technologii UMK, https://www.ctt.umk.pl/kompendium/komercjalizacja-wynikow-badan-naukowych-praktyczny-poradnik-dla-naukowcow-skrypt/
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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