University of Gdańsk

Subject card

Subject name and code	Commercialization of research results, PG_00146875						
Field of study	Genetics and Experimental Biology						
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		
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		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Banking and Finance -> Faculty of Management -> Rector						
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		3.0		7.0	25
Subject objectives	1. Raising the level of knowledge about the nature and importance of innovation, commercialization and technology transfer 2. Learning about tools that increase the innovative potential of an invention resulting from scientific research 3. Raising the level of knowledge about creating innovations, commercialization possibilities and new technologies 4. Gaining the ability to assess the commercialization potential of projects						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GBEL3_W11] A graduate has an advanced knowledge and understanding of: legal, organisational and ethical considerations in the conduct and implementation of genetics and experimental biology research.	The student knows and understands the legal, organizational and ethical conditions for conducting and implementing research in the field of genetics and experimental biology.	[SW4] test/exam - oral or written
[GBEL3_W10] A graduate has an advanced knowledge and understanding of: principles of commercialisation of research, protection of intellectual property and technology transfer.	The student knows the principles of research commercialization, intellectual property protection and technology transfer.	[SW4] test/exam - oral or written
[GBEL3_U08] The graduate is able to: study the literature independently and plan your own career path.	The student is able to independently study literature and plan his or her own professional career path.	[SU4] test/exam - oral or written
[GBEL3_U04] The graduate is able to: read scientific texts in English and Polish with comprehension, synthesise the knowledge they contain, prepare well-documented papers on biological problems and on the commercialisation of research.	The student is able to read and understand scientific texts in English and Polish, synthesize the knowledge contained therein, and prepare well-documented studies of biological problems and those related to the commercialization of research.	[SU4] test/exam - oral or written
[GBEL3_K08] The graduate is prepared to: takes responsibility for equipment/materials entrusted to it and respects the work of others.	The student is responsible for the equipment or materials entrusted to him/her and respects the work of others.	[SK8] observation of student's independent or team work
[GBEL3_K06] The graduate is prepared to: honesty and integrity in scientific and professional work.	The student behaves honestly and conscientiously in his/her academic and professional work.	[SK8] observation of student's independent or team work
[GBEL3_K03] The graduate is prepared to; think and act in an entrepreneurial manner.	The student thinks and acts in an entrepreneurial manner.	[SK6] demonstration of practical skills
[GBEL3_K02] The graduate is prepared to: critically evaluate their own knowledge and methods in molecular biology and related fields and commercialise their research.	The student is able to critically evaluate his/her own knowledge and methods in the field of molecular biology and related fields and the commercialization of research.	[SK4] test/exam - oral or written

Subject contents

1. The essence and types of innovation
2. Scientific research results as the subject of commercialization
3. Methods of commercialization of scientific research results to practice
4. Paths of commercialization of innovation
5. Criteria and methods of evaluation of innovation projects
6. Intellectual property law and patent law
7. Cooperation between universities and business in the process of commercialization of scientific research results
8. Assessment of the commercialization potential of innovation
9. Acquiring an investor in the process of commercialization of innovation

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test	51.0%	100.0%

Recommended reading

Basic literature

1. Roman Tylżanowski, Transfer technologii w przedsiębiorstwach przemysłowych wysokiej techniki w Polsce, CeDeWu, 2015
2. Irena K. Hejduk, Wiesław Maria Grudzewski, Zarządzanie technologiami, Difin, 2008
3. Stec, P., Więzowska-Czepiel, B., Kubiak-Cyrul, A., Malinowski, P., Antoniuk, J. R., Drzewiecki, A., & Załucki, M. (2017). *Komercjalizacja wyników badań naukowych*. Virtualo.

	Supplementary literature	1. Tidd, Joe and Bessant, John (2009). Managing Innovation: Integrating Technological, Market and Organizational Change 4e - first ed. with Keith Pavitt. Chichester: Wiley. 2. Barski R., Cook T., Metodyka identyfikacji projektów do komercjalizacji na wyższych uczelniach, PARP, Warszawa 2011 3. Bhattacharya M., Bloch H., Determinants of Innovation, Small Business Economics, vol. 22, pp.155-162,(2004) 4. Dąbrowska E., Halbersztadt W., Współpraca inwestorów wysokiego ryzyka z ośrodkami innowacji, PARP, Warszawa 2011 5. Griffiths J., Książek E., Przygocki W., Wiśniewski T., Budowanie gotowości inwestycyjnej innowacyjnych pomysłów biznesowych, PARP W-wa 2011
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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