Sylabusy - Centrum Informatyczne UG



2	KAPITAŁ LUDZKI NARODOWA STRATEGIA SPÓJNOŚCI
	NAKODOWA SIKAIEGIA SPOJNOSCI

Projekt współfinansowany przez
Únię Europejską w ramach
Europejskiego Funduszu
Społecznego

UNIA EUROPEJSKA EUROPEJSKI FUNDUSZ SPOŁECZNY



Course title					ECTS code				
Commercialization of research outcomes					13.3.0492				
Name of unit administra	Name of unit administrating study								
Faculty of Chemistry									
Studies									
faculty	field of study	type drugiego st		druaieao sto	pnia				
Wydział Chemii	Chemia		form	stacjonarne					
		spe	specialty		cialty chemia biomedyczna, chemia i technologia środowiska, analityka i				
		speciali	lization		chemiczna, chemia obliczeniowa				
	specialization wszystkie								
Teaching staff									
dr hab. Karol Krzymińs	ski, profesor uczelni								
Forms of classes, the r	ealization and number	of hours			ECTS credits				
Forms of classes					1				
Lecture					Classes: 5 hours				
The realization of activities					Consultation: 2 hours				
classroom instruction					Student's own work: 18 hours				
Number of hours					TOTAL: 25 hours - 1 ECTS				
Lecture: 5 hours									
The academic cycle									
2022/2023 winter sem	ester								
Type of course		La	Language of instruction						
obligatory			polish						
Teaching methods			Form and method of assessment and basic criteria for eveluation or examination requirements						
multimedia-based lect	ure		Final evaluation						
			Graded credit						
		A	Assessment methods						
			assignment work – project or presentation						
			The basic criteria for evaluation						
Method of verifying req	uired learning outcome	es							
Required courses and i	introductory requireme	ents							
A. Formal requirements									
B. Prerequisites									
Communicative English skills; Ability to use MS Excel spreadsheet for simple calculations and any program for the presentation of results and ideas									
(e.g. MS PowerPoint). Aims of education									
To familiarize students with the issues listed in the course content; To acquaint students with the assumptions of the knowledge-based economy; To acquaint students with intellectual and industrial property issues; To acquaint students with the problems and formal issues of patent applications;									
Acquaintance with the principles of cooperation within the research group; Acquainting with problems of financing of research projects; The criteria									
	for selecting the innovative research results for further funding targeted for implementation; Acquainted with the criteria for assessing the commercial								
		-			research; Acquainting with the method of preparing research				
plan and its commercialization. Acquaintance with the project management in the organization.									

Course contents

Basic concepts of commercialization and the research and development sector; Models and examples of commercialization; Stages of commercialization of innovative research; Knowledge-based economy; Financing research and scientific implementations; Patent law and patents; Marketing in science. Diagnosis of the situation in Poland in the R&D sector; Managerial competence; Management of scientific research and development.

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Bibliography of literature

Literature required to pass the course

A.1. Used during meetings

1. Original materials presented during lectures, prepared on the basis of the resources of the "Competence for Science and Business Cooperation", the project financed by the European Union under the European Social Funds (EU/ESF, 2012).

2. Problem issues, delivered in electronic form by the teacher necessary to complete the final thesis.

A.2. Extracurricular/additional readings

1. Nidzworski D., Kuźbicki M., Kowalczyk I., Matusiak K., Przybyłowski M., Kipiel K., Muzalewska M., Ciesielski S., "Bio Bussines School - Guide to the commercialization of research results from the life science industry", Chroma Publishing House, Gdańsk, Poland, 2010.

2. S. Łobejko, A. Sosnowska (ed.), "Commercialization of scientific research results. A practical guide for scientists", a collective work financed by the EU / EFZ, published by the Marshal's Office of the Mazowieckie Voivodeship, Warsaw, Poland 2013.

The learning outcomes (for the field of study and	Knowledge			
specialization)	Student describes stages of commercialization; Knows the mechanisms and models of commercialization; Identifies and recognizes recent market features; Knows basic requirements for patent application; Distinguishes between types of intellectual property; Knows the sources of financing of research projects; Understands the principles of cooperation in research team and effective communication in the group. Knows and understands Belbin's theory of individual roles in a group			
	Skills			
	Social competence			
Contact				

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