

**A COURSE SYLLABUS – DOCTORAL SCHOOL
REGARDING THE QUALIFICATION CYCLE FROM 2022 TO 2026**

GENERAL INFORMATION ABOUT COURSE				
Course title	Commercialization of scientific outcomes			
Name of the unit running the course	Doctoral School at University of Rzeszów			
Type of course (<i>obligatory, optional</i>)	Obligatory			
Year and semester of studies	2022/2023; semester II			
Discipline	Interdisciplinary			
Language of Course	Polish			
Name of Course coordinator	Dr hab. prof. UR Robert Pązik			
Name of Course lecturer	Dr hab. prof. UR Robert Pązik			
Prerequisites	Basic knowledge regarding scientific activities			
BRIEF DESCRIPTION OF COURSE (100-200 words)				
Introductory course for Ph.D. students that concerns the interactions between scientific activities and broadly understood business setting. Emphasis will be put on scientific outcomes implementation towards commercialization. How to commercialize, challenges, commercialization stages, financial support, feedback of institutions (internal/external), risk assessment and how to interact with business.				
COURSE LEARNING OUTCOMES AND METHODS OF EVALUATING LEARNING OUTCOMES				
Learning outcome	The description of the learning outcome defined for the course	Relation to the degree programme outcomes (symbol)	Learning Format (Lectures, classes,...)	Method of assessment of learning outcomes (e.g. test, oral exam, written exam, project,...)
Knowledge (no.)	(Knows and understands)			
1	Understands the role of commercialization of research outcomes and knows the value of IP	P8S_WG/4	L	essay
2	Understands basic business models used in commercialization and knows about the role of feedback institutions.	P8S_WK/3	L	essay
3	Understands the spin-off and spin-out companies role as well as other economic entities.	P8S_WK/3	L	essay
Skills (no.)	(Able to)			
1	Potrafi zaplanować jak komercjalizować wyniki badań naukowych	P8S_UK/2	L, discussion	essay
2	Potrafi znaleźć odpowiednie źródło pomocy organizacyjnej i finansowej oraz jak szukać partnera.	P8S_UW/2	L, discussion	essay

Social competence (no.)	(Ready to)					
1	Ready to evaluate critically scientific results toward commercialization	P8S_KK/1 P8S_KK/2 P8S_KK/3	L, discussion	essay		
2	Ready to use knowledge to improve his entrepreneurship	P8S_KO/1 P8S_KO/2 P8S_KO/3	L, discussion	essay		
LEARNING FORMAT – NUMBER OF HOURS						
Semester	Lectures	Seminars	Lab classes	Internships	Others	ECTS
2	6	-	-	-	-	1
METHODS OF INSTRUCTION						
Lecture preferably supported by the electronic presentation, discussion of issues.						
COURSE CONTENT						
<ol style="list-style-type: none"> 1. Aims, types, and ways to commercialization 2. Commercialization stages (result selection, commercialization potential analysis, technological offer, how to seek potential partners, the value of intellectual research property (IP), how to finance). 3. Role of internal and external feedback institutions. 4. The spin-off, spin-out, what is all about? 5. Planning of commercialization projects, the strategy of research, and how to find a partner. 6. Financing? – how to do it? 						
COURSE ASSESSMENT CRITERIA						
<p>Credit with a grade, assessment based on a short essay dealing with subject of the course. The grade of the essay depends on the content of the essay:</p> <ul style="list-style-type: none"> - grade 3 - describing the topic without main ideas, without division into parts (introduction, arguments/examples, summary) - grade 3.5 - describing the topic with a division into parts: introduction, arguments/examples (using at least two examples), summary; - grade 4 - work containing a division of parts: introduction, arguments/examples (use of more than two examples) and summary; choice of specialized vocabulary - grade 4.5 - a work containing a breakdown of the introduction, arguments/examples (use of more than two examples and summary; selection of specialized vocabulary; bibliography - grade 5 - fully independent work containing a breakdown of the introduction, arguments/examples (use of more than two examples) and summary; selection of specialized vocabulary; bibliography; proposal of own solutions. 						
TOTAL PhD STUDENT WORKLOAD REQUIRED TO ACHIEVE THE INTENDED LEARNING OUTCOMES – NUMBER OF HOURS AND ECTS CREDITS						
Activity				Number of hours		

Scheduled course contact hours	6
Other contact hours involving the teacher (consultation hours, examinations)	4
Non-contact hours – student`s own work (preparation for classes or examinations, project, etc.)	15
Total number of hours	25
Total number of ECTS credits	01

INSTRUCTIONAL MATERIALS

Compulsory literature:	LECTURE MATERIALS
Complementary literature:	

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Date and signature of the Course lecturer

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Approved by the Head of the Department or an authorised person