

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

GENERAL INFORMATION ABOUT COURSE				
Course title	Doctoral Laboratory			
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	I-IV year/ I-VIII semesters			
Discipline	Medical sciences			
Language of Course	Polish			
Name of Course coordinator	Dr hab. n. med. Piotr Futyma, prof. UR			
Name of Course lecturer	Dr hab. n. med. Piotr Futyma, prof. UR			
Prerequisites	PhD student has the knowledge, skills and competences from the 7 th level of the Polish Qualification Framework.			
BRIEF DESCRIPTION OF COURSE (100-200 words)				
<p>The doctoral laboratory includes individual consultations of the doctoral student related to the subject of the doctoral dissertation. Participation in the doctoral laboratory is intended to prepare the doctoral student to conduct research independently and to publish its results. In addition, the doctoral laboratory is intended to provide the doctoral student with the ability to formulate research hypotheses, identify and express scientific problems. The specific aims are to: gain the ability to conduct a scientific discussion, improve the level of inference in a chosen scientific field, develop the ability to communicate with other scientists, acquire knowledge and skills necessary for the proper preparation of a doctoral dissertation.</p>				
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	To an extent that makes it possible to revise existing paradigms – global achievements, including theoretical foundations and general issues and selected detailed issues – specific to a given scientific or artistic discipline.	P8S-WG/1	Seminar	Discussion with the doctoral student
2	Trends in development and the latest discoveries in a selected scientific discipline, current scientific achievements, including global achievements, regarding research in the area of a given discipline.	P8S-WG/2	Seminar	Discussion with the doctoral student
3	The conceptual network of a given discipline (also in a foreign language) and related disciplines	P8S-WG/3	Seminar	Discussion with the doctoral student
4	Methodology of scientific research, including research planning principles	P8S-WG/4	Seminar	Discussion with the doctoral student

	and their implementation, making use of interdisciplinary research techniques and tools.			student		
Skills (no.)	(Able to)					
1	Use knowledge from various fields of science or the field of arts to creatively identify and innovatively solve complex problems or perform tasks of a research nature, particularly: – define the purpose and subject of scientific research, formulate a research hypothesis, – develop research methods, techniques and tools and apply them in a creative manner, – draw conclusions on the basis of scientific research.	P8S_UW1	Seminar	Discussion with the doctoral student		
2	Use scientific literature to identify and solve research and innovation problems; can use the appropriate workshop to create new elements of these achievements.	P8S_UW2	Seminar	Discussion with the doctoral student		
3	Conduct a critical analysis and evaluation of scientific research results, expert activity and other creative works and their contribution to the development of knowledge.	P8S_UW3	Seminar	Discussion with the doctoral student		
Social competence (no.)	(Ready to)					
1	Carry out a critical evaluation of achievements within a given scientific or artistic discipline.	P8S_KK1	Seminar	Discussion with the doctoral student		
LEARNING FORMAT – NUMBER OF HOURS						
Semester (no.)	Lectures	Seminars	Lab classes	Internships	others	ECTS
I-VIII	-	-	-	-	240	24
METHODS OF INSTRUCTION						
Discussion						
COURSE CONTENT						
<p>The programme content is closely related to the research area of the doctoral student. The seminar covers issues related to the implementation of the research topic in medical sciences.</p> <ol style="list-style-type: none"> 1. Definition of the topic of the thesis, the subject and objectives of own research. 2. Development of the initial concept of the doctoral thesis. 3. Analysis of the literature related to the research subject. 4. Substantive preparation for the practical conduct of research. 5. Carrying out the research. 6. Elaboration of research results. 7. Interpretation of the research results obtained and formulation of final conclusions. 						

COURSE ASSESSMENT CRITERIA

The pass mark is an active participation in the seminar consisting in conducting a substantive discussion

**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	240
Other contact hours involving the teacher (consultation hours, examinations)	0
Non-contact hours – student's own work (preparation for classes or examinations, project, etc.)	120
Total number of hours	360
Total number of ECTS credits	24

INSTRUCTIONAL MATERIALS

Compulsory literature:	Current scientific articles in the field of the dissertation topic
Complementary literature:	