A COURSE SYLLABUS – DOCTORAL SCHOOL REGARDING THE QUALIFICATION CYCLE FROM 2024/2025 TO 2027/2028

GENERAL ITEM INFORMATION			
Course title	DOCTORAL WORKSHOP		
Name of the unit running the course	Doctoral School at the University of Rzeszów		
Type of course (obligatory, optional)	compulsory subject		
Year/semester of studies	years I–IV, semesters: I–VIII		
Discipline	Medical sciences		
Language of course	Polish/English		
Name of the course coordinator	Prof. Adam Reich, MD, PhD		
Name of the course lecturer	Prof. Adam Reich, MD, PhD.		
	Dr Oleksandr Korchynskyy		
Prerequisites	Completed higher education or advanced education at the higher		
	education level and confirmed scientific activity. Knowledge of		
	English enabling fluent reading of scientific texts and conducting		
	scientific discussions in this language.		
BRIEF DESCRIPTION OF COURSE			
(100-200 words)			

The aim of the Doctoral Workshop course is to prepare doctoral students to plan, compile the necessary documentation and carry out a research project that will form the basis for their doctoral thesis. As part of the course, doctoral students will acquire knowledge, skills and social competences in the field of preparing a literature review thematically related to their planned scientific research. Next, research hypotheses will be formulated, on the basis of which doctoral students will prepare and carry out a research project. They will conduct pilot and proper scientific research, statistically and graphically process the obtained research results and analyse them based on their knowledge. They will compare their achievements with the available works of experts and make an objective assessment of their own scientific work.

LEARNING OUTCOMES FOR THE SUBJECT AND ASSESSMENT METHODS				
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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:	Knows and understands			
P8S_WG1	Possesses extensive, well-organised theoretical knowledge underpinned by laboratory work. Is familiar with current scientific achievements, including global ones, in the field of their own scientific interests, understands the importance of conducting scientific research and	P8S_WG	Laboratories/ Seminar	report

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	has knowledge related to its			
	perception in the scientific system			
	in comparison with other			
	disciplines.			
P8S_WG2	They have extensive knowledge	P8S_WG	Laboratories/	report
	focused on development and the		Seminar	
	latest discoveries in global scientific			
	research in the discipline of medical			
	sciences and related sciences,			
	thematically related to the scientific			
	research being conducted.			
P8S_WG ₃	Knows and uses specialist	P8S_WG	Laboratories/	report
3	terminology used in the discipline of	_	Seminar	
	medical sciences and related			
	disciplines, thematically related to			
	the scope of scientific research			
	conducted in Polish and in a foreign			
	language.			
P8S_WG4	Knows issues related to the	P8S_WG	Laboratories/	report
1 05_11 04	methodology of conducting	1 05_****	Seminar	Тероге
	scientific research in the chosen		Jerrinar	
	research topic in the discipline of			
	medical sciences, knows the			
	principles of planning and			
	conducting scientific research using			
	interdisciplinary methods and			
Skills:	research tools. Able to			
SKIIIS:	Able to			
P8S_UW1	Based on their specialised	P8S_UW	Laboratories/	report
	knowledge, they are able to identify		Seminar	
	and solve research problems, define			
	research objectives, formulate			
	hypotheses and research topics,			
	develop research techniques,			
	methods and tools, and draw			
	conclusions and make diagnoses			
	based on the results of scientific			
	research.			
P8S_UW2	They are able to select and use	P8S_UW	Laboratories/	report
	available scientific literature to		Seminar	
	I avallable scientific literature to	l		
	properly identify and solve research			
	properly identify and solve research problems related to the topic of			
	properly identify and solve research problems related to the topic of their scientific research and to			
	properly identify and solve research problems related to the topic of their scientific research and to undertake innovative activities			
	properly identify and solve research problems related to the topic of their scientific research and to undertake innovative activities closely related to their scientific			
	properly identify and solve research problems related to the topic of their scientific research and to undertake innovative activities			

P8S_KK1	opinion on	ared to express scientific achie	evements	P8S_I	KK		oratories/ ninar	report
	within the	chosen subject	area in					
		۲	sciences					
	the discipli							
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METHODS OF INSTRUCTION

- traditional seminars and laboratories;
- classes with multimedia presentations;
- projects;
- discussions;
- interpretation of source texts;
- conducting experiments;
- conducting research.

COURSE CONTENT

Curriculum content covered in semesters I to VIII of the course: Doctoral workshop, form of classes: laboratories and seminars.

- 1. Discussion of the principles of reliability and specificity of conducting scientific research in the field of medical sciences.
- 2. Discussion and selection of available literature for the subject of research.
- 3. Development of a general research plan relevant to the completion of a doctoral dissertation based on previously formulated research hypotheses and research objectives (general and specific objectives).
- 4. Implementation of research methods, techniques and tools for the effective implementation of the developed general research plan as part of the doctoral dissertation.

- 5. Preparation of the necessary documentation to allow scientific research to be conducted.
- 6. Conducting a pilot study. Discussion of the results of the pilot study.
- 7. Conducting scientific research related to the topic of the doctoral dissertation.
- 8. Analysis and interpretation of the results obtained.
- 9. Preparation of manuscripts of scientific articles based on the research results obtained.
- 10. Work on the preparation of individual chapters of the doctoral dissertation.
- 11. Preparation of a shortened multimedia presentation of the doctoral dissertation.

COURSE ASSESSMENT CRITERIA

The doctoral student's work is assessed at every stage of the course in each semester and academic year in terms of: literature studied, knowledge expansion, research implementation, commitment and progress in the preparation of the doctoral thesis.

Possible semester grades are: 2.0, 3.0, 3.5, 4.0, 4.5, 5.0.

Percentage requirements for the grading scale:

- up to 50% unsatisfactory (the doctoral student is not making progress in scientific research, is not expanding their knowledge, is not studying the literature, is not participating in substantive discussions, is not fulfilling their scientific obligations);
- 51% 60% satisfactory (the doctoral student makes negligible progress in scientific research, expands their knowledge, studies basic literature, the discussion is limited to a narrow range of substantive knowledge, fulfils basic scientific duties);
- 61% 70% satisfactory plus (the doctoral student makes progress in scientific research, expands their knowledge, studies basic literature, participates substantively in discussions, fulfils their scientific duties);
- 71% 80% good (the doctoral student makes significant progress in scientific research, expands their knowledge, studies basic and supplementary literature, participates substantively in discussions, fulfils all scientific duties);
- 81% 90% good plus (the doctoral student makes significant progress in scientific research, systematically expands their knowledge, studies basic and supplementary literature, participates substantively in discussions, fulfils all scientific duties);
- 91% 100% very good (the doctoral student makes significant progress in scientific research, systematically expands their knowledge, studies basic and supplementary literature as well as literature beyond the required scope, participates substantively in discussions, fulfils all scientific obligations);

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	8 x 30 hrs 240 hrs.
Other contact hours involving the teacher (consultation hours, examinations)	10 hrs.
Non-contact hours – student's own work (preparation for classes or examinations, project, etc.)	470 hrs.
TOTAL NUMBER OF HOURS	720 hrs.

TOTAL NUMBER	R OF ECTS CREDITS*	24		
INSTRUCTIONAL MATERIALS				
Compulsory	Medical databases (PubMed, Scopus, Web of Science)			
literature:				
Complementary	Literature related to the topic of	the doctoral thesis		
literature:				

*(1 ECTS CREDIT CORRE ACHIEVE THE EXPECTED	PONDS TO 25 - 30 HOURS OF TOTAL WORKLOAD OF THE DOCTORAL STUDENT NEEDEL OUTCOMES)	ЭΤΟ
DATE AND SIGNATURE	 F THE COURSE TUTOR	
APPROVAL OF THE HEA	OF THE UNIT OR AUTHORISED PERSON	