A COURSE SYLLABUS – DOCTORAL SCHOOL REGARDING THE QUALIFICATION CYCLE FROM 2024/2025 TO 2028/2029

GENERAL INFORMATION ABOUT COURSE			
Course title	DOCTORAL DISSERTATION		
Name of the unit running the course	Doctoral School at University of Rzeszów		
Type of course (obligatory, optional)	Obligatory subject		
Year and semester of studies	Year I -IV, semester: I - VIII		
Discipline	Medical sciences (anesthesiology and intensive care)		
Language of Course	Polish/English language		
Name of Course coordinator	Dr. med. Renata Zajączkowska, prof. UR		
Name of Course lecturer	Dr. n. med. Renata Zajączkowska, prof. UR		
Prerequisites	No		
BRIEF DESCRIPTION OF COURSE			
(100-200 words)			

The aim of the course is to prepare the Doctoral Student to plan and carry out a research project, which will then be the basis for the preparation of a dissertation, based on which the Doctoral Student will apply for the award of the degree of Doctor of Medical Sciences in the scientific discipline of medical sciences.

As part of the course, the Doctoral Student will acquire knowledge and , skills and social competencies in:

1. preparing a literature review in the subject area coinciding with the planned research project.

2. Establishing a research hypothesis, on the basis of which the research project will be prepared.

3. Planning a research project to verify the assumed research hypothesis.

4. basic statistical analyses, including determining the size of the research group necessary to reliably verify the research hypothesis.

5. elaboration of the obtained research results, including preparation of tabular statements and graphical presentation of the results.

6. preparation for printing a paper describing the results of the research obtained in the course of the research work.

7 Prepare and submit a dissertation, including the necessary documentation in this regard.

COURSE LE	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	knows and understands, has			
(no.)	knowledge			
1.	Has a broad theoretical knowledge of the studied scientific discipline: medical sciences, as well as general issues of related disciplines; knows the current scientific achievements, including those of the world, has knowledge of the place of the studied field of medical and health sciences and their importance in the system of	P8S_WG1	* laboratory/ conversations	report

	science in confrontation with			
2.	other fields. He knows the directions of scientific research and the latest discoveries, including those of global scope, in the scientific	P8S_WG2	*laboratory/ conversations	report
3.	discipline studied. Knows and understands the specialized terminology used in the studied discipline of medical science and in related disciplines, including in a foreign language.	P8S_WG3	*laboratory/ conversations	report
4.	He knows the issues in the methodology of conducting scientific research in the scientific discipline: medical sciences and related disciplines, knows the principles of planning and implementing scientific research, using interdisciplinary research techniques and tools.	P8S_WG4	* laboratory/ conversations	report
Skills	can			
(no.)				
1.	Based on his/her knowledge, he/she is able to identify and solve a research problem, define the purpose of research, formulate a hypothesis and the subject of scientific research, develop research techniques, methods and tools, and make conclusions based on the results of scientific research.	P8S_UW1	* laboratory/ conversations	report
2.	Select and use scientific literature to properly diagnose and solve research problems and innovative activities in conjunction with with the scientific work being carried out, and apply the appropriate workshop to create new elements of scientific output.	P8S_UW2	* laboratory/ conversations	report
3.	Independently acquire knowledge, expand analytical skills, and stimulate critical sensitivity to recognize dilemmas in conducting scientific research and fulfilling the role of a university teacher.	P8S_UW3	*laboratory/ conversations	report
Social competence (no.)	is ready to			
1.	Critically evaluate achievements within the chosen scientific discipline of medical science and related disciplines	P8S_KK1	* laboratory/ conversations	report

		LEARNING FO	RMAT – NUME	ER OF HOURS		
Semester	Lectures	Seminars	Lab	Internships	others	ECTS
(no.)			classes/conv.			
I - VIII	-	-	8 x 30 hrs.	-	-	24
			240 hrs.			
			DDS OF INSTRU			
CONTACT WITH A DISCUSSION	DOCTORAL STUDEN	T DURING CLASSES,	EVALUATION OF AC	TIVITY DURING CLASS	ES, EVALUATION C	OF ENGAGEMENT IN
	S IN THE TRADITIONA	L FORM;				
	ULTIMEDIA PRESENT	ATION;				
- PROJECTS; - DISCUSSION;						
	I OF SOURCE TEXTS;					
	PERIMENTS AND EXP	ERIMENTS;				
- CONDUCTING RES	SEARCH.	<u> </u>	OURSE CONTE	NT		
Semester I						
Preliminary an	alysis of the prep	ared literature.				
Selection of an	area of research	interest based c	on the analysis of	the literature.		
Semester II						
	of the topic of tl	ne dissertation				
			earch hypothese	S.		
	e research meth		, ,			
Drafting a full ا	proposal to the b	ioethics commit	tee.			
Semester III						
	oilot study. Discu	ssing the results	of the pilot study	·.		
5 1	,	5	, , ,			
Semester IV						
Conducting the	e study.					
Semester V						
Conducting the	e research - follo	w-up. Preliminar	y discussion of re	search results.		
Preparation of	an introductory	chapter for the d	issertation.			
Compository VI						
Semester VI Preparation of	a chanter descri	hing the purpose	of the work and	research hypothe	SOS	
	•		material and rese		565.	
	•			ned research resu	lts.	
Preparation of	a chapter on dis	cussion of the res	sults.			
Compostor \/!!						
Semester VII Verification of	research hypoth	A SAS				
			e collected litera	ture.		
		ulting from the w				
	and editing of t	•				
Evaluation of t	he dissertation in	n the anti-plagiar	ism system.			
Somester \////						
Semester VIII	d formatting acc	ording to the acc	cepted rules of th	e dissertation		
			entation of the di			
	-	1	-			

COURSE ASSESSMENT CRITERIA

The prerequisite for passing the course is the design and conduct of a research paper, the development of the obtained research results, the preparation of a dissertation and a conference presentation, as well as the demonstration of highly specialized knowledge of the issues related to the research paper.

Detailed knowledge assessment:

The doctoral student's continuous work in each semester and academic year is evaluated in terms of: implementation of research, expansion of knowledge, study of literature, involvement and progress in the preparation of the dissertation.

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

To obtain a passing grade, a conversion factor is applied for the corresponding percentage of points obtained:

- up to 50% - insufficient: the doctoral student does not make progress in scientific research, does not expand his knowledge, does not study the literature, does not participate in substantive discussion, does not fulfill his scientific duties;

- 51% - 60% - sufficient: the doctoral student makes negligible progress in scientific research, expands knowledge, studies primary literature, the discussion held is limited to a narrow range of substantive knowledge, fulfills basic scientific duties;

- 61% - 70% - sufficient plus: the doctoral student makes progress in scientific research, expands knowledge, studies basic literature, substantively participates in discussion , fulfills scientific duties;

- 71% - 80% - good: the doctoral student makes significant progress in scientific research, expands knowledge, studies primary and supplementary literature, substantively participates in discussions, fulfills all scientific duties;

- 81% - 90% - good plus: the doctoral student makes significant progress in scientific research, systematically expands knowledge, studies primary and supplementary literature, substantively participates in discussion, fulfills all scientific duties;

- 91% - 100% - very good: the doctoral student makes significant progress in scientific research, systematically expands knowledge, studies basic, complementary and beyond the obligatory literature, substantively participates in discussions, fulfills all scientific duties;

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		
Non-contact hours – student's own work (preparation for classes or examinations, project, etc.)		470		
Total number of hours		720		
Total number o	f ECTS credits	24		
	INSTRUCTIONAL MAT	ERIALS		
Compulsory literature:	1. ANESTHESIOLOGY AND INTENSIVE CARE. RADOSŁAW OWCZUK. PZWL 2021.			
	2. ADULT INTENSIVE CARE IN CLINICAL PRACTICE. ZBIGNIEW RYBICKI. MAKMED PUBLISHING HOUSE 2022.			
	3. INTENSIVE CARE IN SEVERE TRAUMA. WALDEMAR MACHALA . MAKMED PUBLISHING HOUSI 2015.			

Complementary literature:	1. TEXTBOOK OF CRITICAL CARE 8TH EDITION. J.L.VINCENT, F.A. MOORE, R. BELLOMO, J.J.MARINI. ELSEVIER 2024.
	2. CRITICAL CARE MEDICINE AT A GLANCE 4TH EDITION. R.M. LEACH. JOHN WILEY AND SONS

*(1 ECTS CREDIT CORRESPONDS TO 25 - 30 HOURS OF THE TOTAL WORKLOAD OF A DOCTORAL STUDENT, NEEDED TO ACHIEVE THE ESTABLISHED EFFECTS).

Date and signature of the Course lecturer

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Approved by the Head of the Department or an authorised person