A COURSE SYLLABUS - DOCTORAL SCHOOL

REGARDING THE QUALIFICATION CYCLE FROM 2022TO 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 (obligatory, optional)	Obligatory			
Year and semester of studies	I-IV year/I-VIII semester			
Discipline	Health Sciences			
Language of Course	Polish			
Name of Course coordinator	Hab. Agnieszka Guzik, Assistant professor			
Name of Course lecturer	Hab. Agnieszka Guzik, Assistant professor			
Prerequisites	Before starting the course, the doctoral school student has the knowledge, skills and competencies from the completed level 7 of the Polish Qualification Framework.			
BRIEF DESCRIPTION OF COURSE				
(100-200 words)				

The doctoral dissertation is aimed at preparing the doctoral student to plan and conduct scientific research, equipping the doctoral student with skills and competencies to apply specialized methodology related to the

research work performed, enabling the preparation of the doctoral dissertation.

COURSE LEARNING OUTCOMES AND METHODS OF EVALUATING LEARNING OUTCOMES						
Learning	The description of the learning	Relation to	Learning Format	Method of		
outcome	outcome defined for the course	the degree	(Lectures, classes,)	assessment of		
		programme		learning		
		outcomes		outcomes (e.g.		
		(symbol)		test, oral exam,		
		(-)		written exam, project,)		
Knowledge	(Knows and understands)			, J ,		
(no.)						
1.	To the extent that it is possible to	P8S_WG1	Laboratory classes /	Monitoring of		
	revise existing paradigms - world		Tutorials	the doctoral		
	achievements, including			student's work,		
	theoretical foundations and			preparation of		
	general issues and selected specific			the draft for		
	issues - relevant to the scientific			the doctoral		
	discipline of health sciences			dissertation,		
	health sciences.			discussion -		
				semesters I		
				and II		
2.	Directions of development and	P8S_WG2	Laboratory classes /	Monitoring of		
	recent discoveries in the scientific		Tutorials	the doctoral		
	discipline of health sciences,			student's work,		
	current scientific achievements,			preparation of		
	including worldwide, in research in			the draft for		
	the area of the discipline of health			the doctoral		
	science and related disciplines.			dissertation,		
				discussion -		
				semesters I		
	T	DOC 14/5		and II		
3.	The conceptual grid of the	P8S_WG ₃	Laboratory classes /	Monitoring of		
	discipline of health science and		Tutorials	the doctoral		
	related disciplines, including in the			student's work,		
	leading foreign language for it.			preparation of		
				the draft for		
				the doctoral		

4.	The methodology of scientific research, including the principles of planning research and its implementation using interdisciplinary techniques and research tools.	P8S_WG4	Laboratory classes / Tutorials	dissertation, discussion - semesters I and II Monitoring of the doctoral student's work, defining the research method for the doctoral dissertation, discussion - semesters I and II
Skills (no.)	(Able to)			
1.	Use interdisciplinary knowledge to creatively identify and innovatively solve complex problems or perform tasks of a research nature, and in particular: - define the purpose and object of scientific research, formulate a research hypothesis, - develop methods, techniques and research tools and creatively apply them, - make conclusions based on scientific research.	P8S_UW1	Laboratory classes / Tutorials	Monitoring of the doctoral student's work, drafting the research-related part of the doctoral dissertation, preparation of the research project, preparation of publications, activity related to conferences -semester II-VIII
2.	Use the scientific literature to identify and solve research problems and those related to related to innovation activities, As well as use the appropriate workshop to create new elements of this body of work.	P8S_UW2	Laboratory classes / Tutorials	Monitoring of the doctoral student's work, drafting the research-related part of the doctoral dissertation, preparation of the research project, preparation of publications, activity related to conferences -semester II-VIII
3.	Perform critical analysis and evaluate the results of scientific research, expert activities and assess their contribution to the development of knowledge.	P8S_UW ₃	Laboratory classes / Tutorials	Monitoring of the doctoral student's work, drafting the research- related part of

Social competence (no.)	(Ready to)							the doctoral dissertation, preparation of the research project, preparation of publications, activity related to conferences -semester II- VIII
1.		s within the disc ences health scie		P8S_KK	1	Labora Tutoria	tory classes / ls	Monitoring of the doctoral student's work, activity related to conferences – semesters II- VII
		LEARNING FO	RMAT	– NUME	BER OF	HOURS	5	
Semester (no.)	Lectures	Seminars	Lab	classes	Inter	nships	others	ECTS
I-VIII	-	-	_	30 hrs. 40 hrs.		-	-	24

METHODS OF INSTRUCTION

Methods based on observation, method of literature analysis and review, conducting research, discussion, individual work.

COURSE CONTENT

Curriculum content implemented in semesters I through VIII:

Critical analysis of scientific research results.

Use of scientific literature to identify and solve research problems.

Development of detailed assumptions of a research project.

Preparation for independent work in planning and conducting scientific research.

Determining the minimum sample size.

Deepening the ability to select appropriate research techniques, methods and tools.

Conducting qualification of participants for the study.

Conducting randomization.

Conducting pilot studies.

Conducting the study proper.

Preparing the database.

Analyzing the obtained research results.

Verification of hypotheses.

Preparation for dissemination of research results.

Preparation of scientific publications.

The final result of the work is the preparation of a doctoral dissertation.

COURSE ASSESSMENT CRITERIA

Credit with a grade after each semester on the basis of completion of a specific practical work, presentation of detailed assumptions of the research project, partial reports on the conducted research, database, analysis of the results of own research. Evaluation of the doctoral student's progress in activities related to the realization of

the learning outcomes planned in the syllabus for the course, i.e. documents confirming various forms of scientific activity (including abstracts, certificates of participation in conferences, publications). Possible semester grades are: 2.0, 3.0, 3.5, 4.0, 4.5, 5.0.

TOTAL PhD STUDENT WORKLOAD REQUIRED TO ACHIEVE THE INTENDED LEARNING OUTCOMES - NUMBER OF HOURS AND ECTS CREDITS

– NUMBER OF HOURS AND ECTS CREDITS					
Activity		Number of hours			
Scheduled course	e contact hours	240 hrs. (30 hours in each semester for 4 years)			
	hours involving the teacher irs, examinations)	16 hrs. (2 hours in each semester for 4 years)			
	ours – student`s own work classes or examinations, project,	464 hrs. (40 hours in each semester for 4 years)			
Total number of hours		720 hrs			
Total number of ECTS credits		24			
	INSTRUCTIO	NAL MATERIALS			
Compulsory literature:	 Radomski D., Grzanka A. Methodology of scientific research in medicine. Poznan, Scientific Publishing House of the Medical University, 2011. Dwiliński L.: Fundamentals of scientific research. Oficyna Wydawnicza Politechniki Warszawskiej, Warsaw, 2009. 				
Complementary literature:	 Boncler M., Różalski M., Watala C. Research and publications in biomedical sciences Volume 1, Alfa-Medica Press 2011. Boncler M., Watala C., Różalski M. Research and publications in biomedical sciences Volume 2, Alfa-Medica Press 2011 Jedrychowski W.: Principles of planning and conducting scientific research. Jagiellonian University Publishing House, Krakow 2004. 				

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

 Approved by the Head of	the Departn	nent or an auth	norised persor

Date and signature of the Course lecturer