SYLLABUS - DOCTORAL SCHOOL CYCLE OF EDUCATION 2022 TO 2026

BASIC INFORMATION CONCERNING THIS SUBJECT				
Subject title	DOCTORAL SEMINAR			
Name of the unit realizing the subject	Doctoral School in University of Rzeszów			
Subject type (compulsory, optional)	Compulsory			
Year/Semester	Year I/semester I, Year I/semester II, Year II/semester III,			
	Year II/semester IV, Year III/semester V, Year III/semester VI,			
	Year IV/semester VII			
Discipline	Medical sciences			
Language of lecture	Polish/English			
Name and surname of the course coordinator	Prof. Adam Reich, MD, PhD			
Name and surname of the course instructor	Prof. Adam Reich, MD, PhD			
Prerequisites	Completed higher education or advanced education at the			
	higher education level. Knowledge of English at the B2 CEFR			
level, with a focus on specialised vocabulary.				
ABSTRACT OF THE SUBJECT				

(synthetic description of the content and objectives of the subject; 100-200 words)

The aim of the doctoral seminar is for doctoral students to plan and conduct a detailed analysis of a research project, which will then form the basis for the preparation of a doctoral dissertation on the basis of which the doctoral student will apply for a doctoral degree in medical sciences and health sciences, in the scientific discipline of medical sciences. As part of the course, doctoral students will acquire knowledge, skills and social competences in the following areas:

- 1. Preparing a literature review in a subject area relevant to the planned research project.
- 2. Formulating a research hypothesis, on the basis of which a research project will be prepared.
- 3. Planning a research project aimed at verifying the assumed research hypothesis.
- 4. Basic statistical analyses, including determining the size of the research group necessary to reliably verify the research hypothesis.
- 5. Processing the research results, including preparing tabular summaries and graphical representations of the results.
- 6. Preparing a paper for publication describing the research results obtained in the course of experimental work.

7. Preparing and submitting a doctoral dissertation, including the necessary documentation.

METHODS OF VERIFICATION OF LEARNING OUTCOMES						
Symbol of effect	Expected learning outcomes efekty	Reference to learning outcomes for qualifications at PRK level 8 (symbol)	Form of didactic classes	Verification methods (e.g., colloquium, oral exam, written exam, project, etc.)		
Knowledge No.	Knows and understands					
1.	He has extensive theoretical knowledge, supported by practical knowledge in the field of skin diseases, related to the topic of his doctoral thesis, and is familiar with the conceptual framework used in medical sciences, with a focus on the specialisation of dermatology, and is familiar with the latest discoveries and scientific achievements, including global ones, in the field of research interests in medical sciences and related disciplines	P8S_WG1, P8S_WG3	Seminar	Discussion,		

	to a degree verification of dermatological consequences.	presented						
2	Knows the role for internation conducting so analysing the rest of dermatologic	onal coopera cientific resea esults obtained i	ation in arch and	P8:	S_WG2	Se	minar	Discussion,
Skills No.	Is able to							
1	Identify and sol take innovative scientific achie dermatology, scientific publicurnals, as achievements a rules applicable sciences.	actions to creativements in the beable to lications and well as according to the	e field of classify scientific scientific e accepted	P8:	S_UW2	Se	minar	Discussion, publication
2	Use meta-ana process by place scientific research method as critically research results	anning and carch based of desired based of desired conditions of the desired control of the	conducting n reliable ues, as well	P8:	S_UW1	Se	minar	Discussion, publication
3	Prepare and presentation or research and I presentation in and profession foreign language able to establish cooperation in teams, taking them.	n the impleme ead a discussion an internationa al environment ge at B2 CEFR n and undertak i international	ntation of on on the al scientific t, using a level. Be e scientific research	P8:	S_UK6	Se	minar	Discussion, Presentation, publication
4	Critically evaluresults, available other research assess their	ole expert ana and scientific v contribution and dissemir	vorks, and to the	P8:	S_UW3	Se	minar	Discussion, Oral presentation
Social competence No.		ls ready to						
1	He is ready to make critical judgements concerning scientific achievements in medical sciences and related disciplines and compare them with global achievements.			P8:	S_KK1	Se	minar	Discussion, assessment
2	Thanks to his kr to solve cognitiv	e and practical	problems.		S_KK3		minar	Discussion, publication
<u> </u>		OF TEACHING	_					
Semester I	_ecture/Seminar	Exercise	Laborato	ry	Practical		Other	Number of point ECTS
	15	-	-		-		-	2
II	15	-	-		-		-	2

III	15	-	-	-	-	2
IV	15	-	-	-	-	2
V	15	-	-	-	-	2
VI	15	-	-	-	-	2
VII	15	-	-	-	-	2
total:	105 hrs.					14 ECTS

TEACHING METHODS

Contact with the doctoral student during classes, assessment of activity during classes, assessment of involvement in substantive discussion.

PROGRAM CONTENT

Curriculum content covered in the course (semesters I to VII)

- 1. Dermatology as a medical specialty combining various fields of medicine.
- 2. Concept of the doctoral thesis topic.
- 3. Finalising the doctoral thesis topic.
- 4. Formulating the research problem, proposing hypotheses and defining the subject of scientific research.
- 5. Medical experiments and other forms of scientific research in medicine.
- 6. Selection of research methods, techniques and tools.
- 7. Preparation and submission of documentation to the Bioethics Committee.
- 8. Legal regulations concerning the conduct of medical research.
- 9. Analysis of pilot study results.
- 10. Analysis of the selection of research methods, techniques and tools based on the results of pilot studies.
- 11. Conducting research.
- 12. Compiling research results.
- 13. Preparing a doctoral dissertation.

CONDITIONS FOR COMPLETING THE SUBJECT (EVALUATION CRITERIA)

Oral examination.

The requirements for passing the course include designing and conducting a medical experiment or other equivalent research work, compiling the research results, preparing a conference presentation and a publication for print, as well as demonstrating highly specialised knowledge relevant to research work.

The applicable grading scale is: 2.0, 3.0, 3.5, 4.0, 4.5, 5.0.

Detailed assessment of knowledge:

- 5.0 demonstrates knowledge of each of the educational contents at a level of 90%-100%
- 4.5 demonstrates knowledge of each of the educational contents at a level of 84%-89%
- 4.0 demonstrates knowledge of each of the educational contents at a level of 77%-83%
- 3.5 demonstrates knowledge of each of the educational contents at a level of 70%-76%
- 3.0 demonstrates knowledge of each of the educational contents at a level of 60%-69%
- 2.0 demonstrates knowledge of each of the educational contents below 60%

TOTAL STUDENT WORKLOAD REQUIRED TO ACHIVE THE DESIRED RESULT IN HOURS AND ECTS CREDITS

Activity	The average number of hours to complete the activity
Hours carried out in direct contact resulting from the study plan	7 x 15 – 105 hrs.
Others with the participation of the teacher (participation in consultations, exam)	0

Hours carried out independently by the PhD student		315 hrs.			
(preparation for c	lasses, exam, writing a paper, etc.)				
TOTAL HOURS					
		420 hrs.			
TOTAL NUMBER	R OF ECTS CREDITS*	14			
	LITERATURE				
Primary	Literature related to the topic of the doctoral thesis (separate for each doctoral student),				
literature:	Medical databases (PubMed, Scopus, Web of Science).				
Supplementary	-				
literature:					
*(1 FCTS PO	*(1 ECTS POINT CORRESPONDS TO 25–30 HOURS OF TOTAL WORK BY THE DOCTORAL STUDENT NECESSARY TO				

(1 -	TO ICITAL CONNEST ONE	75 10 25 30 110 0 K 5 O I	TOTAL WORK DI	THE DOCTORAL STO	DEINT MECESSART TO
ACH	IIEVE THE INTENDED RESU	JLTS)			
	Date and signature of the	course lecturer			

Approval of the Head of the Unit or authorised person