

**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 of Rzeszow University			
Type of course (<i>obligatory, optional</i>)	Obligatory			
Year and semester of studies	Year I/sem. I, Year I/sem. II, Year II/sem. III, Year II/sem. IV, Year III/sem. V, Year III/sem. VI, Year IV/sem. VII, Year IV/sem. VIII			
Discipline	Medicine and Health sciences (dermatology)			
Language of Course	Polish/English			
Name of Course coordinator	Prof. Adam Reich			
Name of Course lecturer	Prof. Adam Reich			
Prerequisites	None			
BRIEF DESCRIPTION OF COURSE (100-200 words)				
<p>The purpose of the classes 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 doctoral dissertation on the basis of which the doctoral student will apply for the degree of PhD in the field of Medicine and Health Sciences. As part of the course, the doctoral student will acquire knowledge and skills in:</p> <ol style="list-style-type: none"> 1. preparing a literature review in the subject area coinciding with the planned research project. 2. to formulate a research hypothesis, on the basis of which a 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. development of the obtained research results, including the preparation of tables and graphical presentation of the results. 6. preparation of a paper for publication describing the research results obtained in the course of experimental work 7. preparation and submission of the dissertation, including the necessary documentation in this regard. 				
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	Has knowledge at an advanced level in the broad field of skin disorders	P8S-WG/1 P8S-WG/2	Laboratories/ Colloquia	Discussion, credit
2	The role of international cooperation in conducting scientific research and analyzing the results obtained	P8S-WG/2	Laboratories/ Colloquia	Discussion, credit
3	The function of caring for a doctoral student in the process of research planning, implementation and analysis of results	P8S-UW/3	Laboratories/ Colloquia	Discussion, credit
Skills (no.)	(Able to)			

1	Competently cite other authors in articles published and prepared for publication in peer-reviewed scientific journals, in peer-reviewed materials from international scientific conferences, prior to the preparation of the dissertation.	P8S-WG/1	Laboratories/ Colloquia	Discussion, publication
2	Classify scientific publications, including scientific journals, and scientific output according to accepted rules.	P8S-UW /2	Laboratories/ Colloquia	Discussion, publication
3	Use meta-analysis in the research process,	P8S-UW/1	Laboratories/ Colloquia	Discussion, publication
4	Identify regulations governing scientific research and prepare the necessary documents.	P8S-UO/1	Laboratories/ Colloquia	Discussion, preparation of the project
5	Plan a scientific study based on reliable research methods, as well as critically evaluate the obtained research results.	P8S-UW/1	Laboratories/ Colloquia	Discussion, preparation of the project
6	Create and conduct independent scientific research.	P8S-UO/1	Laboratories/ Colloquia	Discussion
7	Creatively interpret the obtained results and seek their applied use.	P8S-UU/1	Laboratories/ Colloquia	Discussion, publication
8	Prepare and present an oral and multimedia presentation on the implementation of the research and lead a discussion on the presentation given.	P8S-UK/1 P8S-UK/4 P8S-UK/6	Laboratories/ Colloquia	Discussion, oral presentation
Social competence (no.)	(Ready to)			
1	To make a public presentation on an ongoing research project.	P8S-KK/2	Laboratories/ Colloquia	Oral presentation
2	Establish and undertake scientific cooperation in research teams	P8S-UO/1	Laboratories/ Colloquia	Discussion
3	The need for participation of doctoral students and young scientists in the collegiate bodies that make decisions on the organization of the research process and the course of doctoral studies, as well as direct contact with their superiors	P8S-KO/1	Laboratories/ Colloquia	Discussion, credit
4	The need to develop contacts between the scientific unit and the socio-economic environment, including patient organizations and medical entities	P8S-KO/1	Laboratories/ Colloquia	Discussion, credit
5	The importance of the relationship: student - master	P8S-KR/1	Laboratories/ Colloquia	Discussion, credit
6	Regulations on permitted public use and issues related to the protection and distribution of rights to intellectual property developed in the course of research	P8S-KR/1	Laboratories/ Colloquia	Discussion, credit

LEARNING FORMAT – NUMBER OF HOURS

Semester (no.)	Lectures	Seminars	Lab classes	Internships	others	ECTS
I	-	-	30	-	-	3

II	-	-	30	-	-	3
III	-	-	30	-	-	3
IV	-	-	30	-	-	3
V	-	-	30	-	-	3
VI	-	-	30	-	-	3
VII	-	-	30	-	-	3
VIII	-	-	30	-	-	3

METHODS OF INSTRUCTION

Contact with doctoral student during class, evaluation of activity during class, evaluation of engagement in discussion

COURSE CONTENT

1. dermatology as a medical specialty combining various branches of medicine
2. medical experimentation vs. other forms of scientific research in medicine
3. legal regulation of scientific promotions
4. preparation of a doctoral dissertation

COURSE ASSESSMENT CRITERIA

Oral credit.

The prerequisite for credit is the design and conduct of a medical experiment or other equivalent research work, the development of the obtained research results, the preparation of a conference presentation and publication for publication, and the demonstration of highly specialized knowledge relevant to the issues related to the research work.

- 5.0 - shows knowledge of each of the content of education at the level of 90% -100%
4.5 - shows knowledge of each of the content of education at the level of 84% -89%
4.0 - shows knowledge of each of the content of education at the level of 77% -83%
3.5 - shows knowledge of each of the content of education at the level of 70% -76%
3.0 - shows knowledge of each of the content of education at the level of 60% -69%
2.0 - shows knowledge of each of the content of education below 60%

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.)	40
Total number of hours	280
Total number of ECTS credits	24

INSTRUCTIONAL MATERIALS

Compulsory	BOLOGNA J.L., SCHAFFER J.V., CERRONI L. DERMATOLOGY. VOL. 1, VOL. 2. ELSEVIER 2017
------------	---

literature:	
Complementary literature:	LITERATURE RELATED TO THE DISSERTATION TOPIC (SEPARATE FOR EACH DOCTORAL STUDENT)