

**A COURSE SYLLABUS – DOCTORAL SCHOOL**  
**REGARDING THE QUALIFICATION CYCLE FROM 2023/2024 TO 2026/2027**

GENERAL ITEM INFORMATION				
Course title		DOCTORAL WORKSHOP		
Name of the unit running the course		Doctoral School at the University of Rzeszów		
Type of course ( <i>obligatory, optional</i> )		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		
Prerequisites		Completed higher education or advanced education at the higher education level with confirmation of research activity. Knowledge of English at the B2 CEFR level, with a focus on specialist vocabulary.		
BRIEF DESCRIPTION OF COURSE (100-200 words)				
<p>The aim of the Doctoral Workshop course is to prepare doctoral students to plan and carry out a research project that will form the basis for their doctoral dissertation.</p> <p>As part of the course, doctoral students will acquire knowledge, skills and social competences in the field of preparing a literature review, thematically consistent with the planned scientific research, formulate research hypotheses, on the basis of which they will prepare a research project. They will conduct pilot and proper research, statistically and graphically process the obtained results, and analyse the obtained research results based on the available knowledge. They will compare the obtained data with the available works of experts and make an objective assessment of their own research work.</p>				
LEARNING OUTCOMES FOR THE SUBJECT AND ASSESSMENT METHODS				
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_WG/1	The doctoral student has extensive theoretical knowledge supported by professional experience in the chosen specialisation: dermatology in the field of medical sciences, with a particular focus on skin diseases, their complications and treatment. They are also familiar with general issues in related disciplines in the field of skin diseases. They understand the need for and	P8S_WG	Laboratories/ Seminar	report

	importance of conducting scientific research in their area of interest and are knowledgeable about its place in the scientific system. They compare their knowledge and experience with the existing opinions of global experts and researchers.			
<b>P8S_WG/2</b>	They have structured knowledge of discoveries and developments in global science in the field of dermatological diagnosis and treatment in the discipline of medical sciences and related sciences.	P8S_WG	Laboratories/ Seminar	report
<b>P8S_WG/3</b>	They know and communicate in Polish and a foreign language using specialist terminology in the environment of medical science specialists, related to dermatology in the broad sense.	P8S_WG	Laboratories/ Seminar	report
<b>P8S_WG/4</b>	Knows the methodology of conducting scientific research in the chosen field related to dermatological diseases in the discipline of medical sciences, knows the principles of planning and conducting medical scientific research, selecting and applying interdisciplinary research techniques and tools.	P8S_WG	Laboratories/ Seminar	report
<b>Skills: Able to</b>				
<b>P8S_UW/1</b>	Demonstrating extensive, structured knowledge in the field of dermatology, they are able to identify and solve research problems, define research objectives, formulate hypotheses and research topics, develop research techniques, methods and tools, and draw conclusions based on the results of scientific research.	P8S_UW	Laboratories/ Seminar	report
<b>P8S_UW/2</b>	Using the available global scientific literature, the doctoral student is able to make a correct diagnosis, take innovative action and solve	P8S_UW	Laboratories/ Seminar	report

	research problems related to their scientific work in the field of dermatology, and apply selected tools to create new elements of scientific output.					
P8S_UW/3	They are able to independently deepen their knowledge, broaden their analytical skills and stimulate critical sensitivity to the recognition of dilemmas when conducting scientific research in the specialisation of dermatology, as well as when performing various social roles, including that of an academic teacher.	P8S_UW	Laboratories/ Seminar	report		
Social competence: Ready to						
P8S_KK/1	He is ready to critically evaluate scientific achievements in the field of medical sciences related to the diagnosis and treatment of various dermatological conditions, and to critically evaluate the contribution of his own research activities to the development of issues related to dermatology.	P8S_KK	Laboratories/ Seminar	report		
LEARNING FORMAT – NUMBER OF HOURS						
Semester (no.)	Lectures	Seminars	Laboratories/ Seminar	Internships	Other	ECTS
I - VIII	-	8 x 15 hrs.- 120 hrs.	8 x 15 hrs.- 120 hrs.	-	-	24
METHODS OF INSTRUCTION						
<ul style="list-style-type: none"><li>- traditional seminars and laboratories;</li><li>- classes with multimedia presentations;</li><li>- projects;</li><li>- discussions;</li><li>- interpretation of source texts;</li><li>- conducting experiments;</li><li>- conducting research.</li></ul>						
COURSE CONTENT						
Curriculum content covered in semesters I to VIII for the subject: Doctoral workshop, form of classes: laboratories/seminar						
1. Discussion of the specifics and principles of reliability in conducting scientific research in the field of medical sciences.						

2. Analysis 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 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.
7. Analysing the results of the pilot study.
8. Conducting scientific research related to the implementation of the doctoral dissertation topic.
9. Analysis and interpretation of the research results obtained.
10. Preparation of manuscripts of scientific articles based on the research results obtained.
11. Work on the preparation of individual chapters of the doctoral dissertation.
12. Preparation of a shortened multimedia presentation of the doctoral dissertation.

#### **COURSE ASSESSMENT CRITERIA**

The assessment covers the doctoral student's continuous work in each semester and academic year in the following areas: studied literature, expanding knowledge, planning and conducting scientific research, selection of research methods and tools, commitment and progress in preparing and conducting scientific research. 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 in substantive discussions, fulfils their scientific duties);
- 71% - 80% - good (the doctoral student makes significant progress in scientific research, expands their knowledge, selects and 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, explores and 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 explores 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	<b>8 x 30 hrs. - 240 hrs.</b>
Other contact hours involving the teacher (consultation hours, examinations)	<b>30 hrs.</b>

Non-contact hours – student`s own work (preparation for classes or examinations, project, etc.)	<b>450 hrs.</b>
<b>TOTAL NUMBER OF HOURS</b>	<b>720 hrs.</b>
<b>TOTAL NUMBER OF ECTS CREDITS*</b>	<b>24</b>
<b>INSTRUCTIONAL MATERIALS</b>	
Compulsory literature:	Medical databases (PubMed, Scopus, Web of Science)
Complementary literature:	Literature related to the topic of the doctoral thesis

\*(1 ECTS CREDIT CORRESPONDS TO 25 - 30 HOURS OF TOTAL WORKLOAD OF THE DOCTORAL STUDENT NEEDED TO ACHIEVE THE EXPECTED OUTCOMES)

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DATE AND SIGNATURE OF THE COURSE TUTOR

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APPROVAL OF THE HEAD OF THE UNIT OR AUTHORISED PERSON