

**SYLLABUS – DOCTORAL SCHOOL
CYCLE OF EDUCATION 2024/2025 TO 2027/2028**

BASIC INFORMATION CONCERNING THIS SUBJECT				
Subject title		<i>DOCTORAL SEMINAR</i>		
Name of the unit realizing the subject		Doctoral School in University of Rzeszów		
Subject type (compulsory, optional)		Compulsory		
Year/Semester		Year I- IV, semester: I - 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 and confirmed scientific activity. Knowledge of English at the B2 CEFR level, with a focus on specialist vocabulary.		
ABSTRACT OF THE SUBJECT (synthetic description of the content and objectives of the subject; 100-200 words)				
<p>The subject entitled: Doctoral Seminar aims to develop the doctoral student's ability to independently formulate general and specific research hypotheses, identify and express scientific problems. The specific objective is: for the doctoral student to acquire the skills of conducting scientific activity, publishing, actively participating in discussions among specialists, improving their reasoning skills in the field of medical and health sciences, in the discipline of medical sciences, developing the ability to communicate with scientists, and acquiring the knowledge and skills necessary to properly prepare a doctoral dissertation.</p> <p>The doctoral seminar includes individual consultations with doctoral students, during which the topics of planned and ongoing scientific research, research problems and hypotheses are discussed, and the text of the publication and doctoral dissertation is analysed. Participation in the doctoral seminar prepares doctoral students to conduct independent scientific research and publish their results.</p>				
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			
P8S_WG1	The doctoral student has extensive theoretical knowledge and practical experience, is familiar with scientific achievements, including global ones, in the field of medical science, with a particular focus on diseases, diagnosis and treatment of skin diseases in the specialisation of dermatology, as well as general issues in related disciplines. They have knowledge of its place in the scientific system, which allows them to verify views on diagnosed conditions.	P8S_WG	Seminar	oral presentation, discussion
P8S_WG2	The doctoral student is familiar with the directions of scientific research and the latest global discoveries related to dermatology, and also knows general	P8S_WG	Seminar	oral presentation, discussion

	issues in related disciplines thematically related to their own scientific research.			
P8S_WG3	The doctoral student knows, understands and uses the conceptual terminology related to the field of research in medical sciences specialising in dermatology, and communicates with a group of specialists in their native and foreign languages.	P8S_WG		oral presentation,
Skills No.	Is able to			
P8S_UW1	Based on their extensive knowledge of dermatological conditions, doctoral students are able to identify and solve research problems, define objectives, formulate hypotheses and research topics, improve research techniques, methods and tools, and draw conclusions based on the results of their research.	P8S_UW	Seminar	oral presentation, discussion
P8S_UW2	They are able to select and use global scientific literature to diagnose and solve research problems and innovative activities in their scientific work in the field of dermatology in the discipline of medical sciences, and apply the appropriate tools to create new elements of scientific output.	P8S_UW	Seminar	oral presentation, discussion
P8S_UW3	Is able to use their interdisciplinary knowledge to analyse and evaluate the results of scientific research and expert activity in the field of diagnosis and treatment of dermatological conditions, formulating opinions on this basis, including critical judgements.	P8S_UW	Seminar	oral presentation, discussion
P8S_UK6	The doctoral student is able to speak in public to present the results of their own scientific research in the discipline of medical sciences, in the specialisation of dermatology, and to actively participate in discussions on scientific and professional topics in an international environment of specialists, communicating in a foreign language at level B2 of the Common European Framework of Reference for Languages.	P8S_UK	Seminar	oral presentation, discussion
Social competence No.	Is ready to			
P8S_KK1	The doctoral student is prepared to critically evaluate achievements in the diagnosis and treatment of dermatological conditions within their	P8S_KK	Seminar	oral presentation, discussion

	chosen medical discipline and to critically assess the contribution of their own research to the development of this discipline.			
P8S_KK3	Thanks to their established knowledge, they are able to solve theoretical and practical problems in the field of dermatology.	P8S_KK	Seminar	oral presentation, discussion

FORMS OF TEACHING CLASSES, HOURS AND CREDITS₁

Semester No.	Lecture/Seminar	Exercise	Laboratory	Practical	Other	Number of point ECTS
I - IV	15	-	-	-	7 x 15 hrs. - 105 hrs.	14

TEACHING METHODS

- academic discussion,
- study of academic literature and medical databases,
- multimedia presentation,
- preparation and presentation of research objectives, research methods, research results,
- final assignments,
- progress in the preparation of a doctoral dissertation.

PROGRAM CONTENT

Curriculum content covered during semesters: I to VII.

The seminar covers issues related to the implementation of research topics in the field of medical sciences.

1. Analysis of available scientific literature in the area of research interests.
2. Determination of the topic of the doctoral dissertation, subject, objectives of own research and formulation of research hypotheses.
3. Research methodology (research methods, techniques and tools).
4. Substantive preparation for the practical conduct of scientific research.
5. Conducting a pilot study. Discussion of the results of the pilot study.
6. Conducting the actual research.
7. Compiling the research results.
8. Interpretation of the research results and formulation of final conclusions.
9. Verification of research hypotheses.
10. Detailed elaboration based on the collected data.
11. Formulation of conclusions resulting from the dissertation.
12. Citation and editing of literature.
13. Evaluation of the doctoral dissertation in an anti-plagiarism system.

CONDITIONS FOR COMPLETING THE SUBJECT (EVALUATION CRITERIA)

The assessment covers the doctoral student's continuous work in each semester and academic year in the following areas: conducting research, expanding knowledge, skills and social competences, studying literature, commitment and progress in preparing the doctoral dissertation.

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

In order to obtain a positive grade, a conversion factor is applied for the corresponding percentage of points obtained:

- ✓ **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 substantively in discussions, fulfils their scientific duties);
- ✓ **71% - 80% - good** (the doctoral student makes significant progress in scientific research, expands their knowledge, 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, 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 expands their knowledge, studies basic and supplementary literature, as well as literature beyond the required scope, participates in discussions in a substantive manner, fulfils all scientific obligations);

TOTAL STUDENT WORKLOAD REQUIRED TO ACHIEVE 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)	10
Hours carried out independently by the PhD student (preparation for classes, exam, writing a paper, etc.)	305 hrs.
TOTAL HOURS	420 hrs.
TOTAL NUMBER OF ECTS CREDITS*	14

LITERATURE

Primary literature:	Literature related to the topic of the doctoral thesis (separate for each doctoral student), Medical databases (PubMed, Scopus, Web of Science).
Supplementary literature:	-

*(1 ECTS POINT CORRESPONDS TO 25–30 HOURS OF TOTAL WORK BY THE DOCTORAL STUDENT NECESSARY TO ACHIEVE THE INTENDED RESULTS)

.....
Date and signature of the course lecturer

.....
Approval of the Head of the Unit or authorised person