

A COURSE SYLLABUS – DOCTORAL SCHOOL
regarding the qualification cycle from 2025/2026 to 2028/2029

GENERAL INFORMATION ABOUT COURSE				
Course title	RESEARCH METHODOLOGY			
Name of the unit running the course	Doctoral School of the University of Rzeszów			
Type of course (<i>obligatory, optional</i>)	compulsory			
Year and semester of studies	Year I/Semester I and II			
Discipline	Medical sciences			
Language of Course	Polish language			
Name of Course coordinator	Prof. Adam Reich, MD, PhD			
Name of Course lecturer	Prof. Adam Reich, MD, PhD			
Prerequisites	Knowledge, skills and social competences related to the methodology of conducting scientific research, achieved at level 7 of the Polish Qualifications Framework.			
BRIEF DESCRIPTION OF COURSE (100-200 words)				
As part of the course: 'Research Methodology', doctoral students will consolidate their knowledge, skills and social competences regarding the set of rules, procedures and techniques used in the research process in the scientific discipline of medical sciences. The research process begins with planning, followed by pilot studies and proper research to thoroughly analyse the obtained results. The planned research process aims to obtain reliable and objective results. A key aspect in achieving the research objective is the selection of appropriate research methods, techniques and tools that will allow for the optimal solution of the research problem and confirmation or refutation of the hypotheses.				
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, has knowledge			
P8S_WG3	Knows, understands and uses specialist terminology used in the national and international scientific and professional environment in the scientific discipline of medical sciences, in which scientific research is planned in the field of immune dysfunction, the pathogenesis of nodular prurigo and other inflammatory dermatoses accompanied by itching.	P8S_WG	Conversatory	discussion,
P8S_WG4	Has extensive knowledge of the methodology of scientific research in the discipline of medical sciences, using interdisciplinary research tools and techniques that will enable the most reliable and objective research results to be obtained.	P8S_WG	Conversatory	written assignments (presentation)

P8S_WK3	He has extensive knowledge of the possibilities of transferring the results of his scientific activity to the economic and social spheres.			P8S_WK	Conversatory	discussion,
Skills (no.)	can					
P8S_UW1	He is able to use interdisciplinary knowledge to identify and practically solve research problems encountered by: defining the objective, subject and research hypothesis, creating innovative research methods, techniques and tools, and drawing conclusions based on the research results achieved.			P8S_UW	Conversatory	discussion,
P8S_UK1	Actively participate in national and international scientific and professional communities, sharing the results of your research work.			P8S_UK	Conversatory	Oral statement, draft
P8S_UO1	Actively participate in national and international research communities, performing various roles within them.			P8S_UO	Conversatory	project
Social competence (no.)	is ready to					
P8S_KR1	Is ready to develop the ethos of research communities, including conducting scientific activities independently, taking into account the principles of intellectual property protection and respect for the principles of public ownership of research results.			P8S_KR	Conversatory	project, discussion
Semester (no.)	Lectures	seminar	Conversatory / Lab classes	Internships	others	ECTS
I	-	-	30	-	-	3
II	-	-	30	-	-	3
total:	-	-	60	-	-	6
METHODS OF INSTRUCTION						
<p>- <i>TRADITIONAL SEMINAR;</i> - <i>SEMINAR WITH MULTIMEDIA PRESENTATION;</i> - <i>PROJECT;</i> - <i>DISCUSSION.</i></p>						
COURSE CONTENT						
<p>Semester I:</p> <ol style="list-style-type: none"> 1. Fundamentals of research methodology in medical sciences. 2. Formulating research problems, objectives and hypotheses. 3. Methods, tools and techniques of scientific research: analysis of research tools, analysis of scientific publications related to the area of research interest. <p>Semester II:</p> <ol style="list-style-type: none"> 1. Designing scientific research and ethical aspects of research involving human subjects. 2. Selection of statistical methods. 3. Data analysis and interpretation of scientific research results. 4. Preparation of scientific publications and presentation of research results. 						

COURSE ASSESSMENT CRITERIA

The course is taught in semesters I and II. After semester I, the course ends with a ZO1 grade, and after semester II, it ends with an E2 examination. Classes are conducted in direct contact between the doctoral student and the supervisor or assistant supervisor.

In order to pass the course after semester I, a report on the completion of the task must be submitted.

In order to pass the exam after semester II, at least 51% of the points from the written work must be obtained.

In order to obtain a positive grade, the following conversion table is used 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 obligations);
- 91% - 100% - very good (the doctoral student makes significant progress in scientific research, systematically expands their knowledge, studies basic, supplementary and advanced literature, 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	2 x 30 hrs. – 60 hrs.
Other contact hours involving the teacher (consultation hours, examinations)	4
Non-contact hours – student`s own work (preparation for classes or examinations, project, etc.)	116 hrs
Total number of hours	180
Total number of ECTS credits	6

INSTRUCTIONAL MATERIALS

Compulsory literature:	<p>Babbie, E. (2013). Podstawy badań społecznych. Warszawa: PWN.</p> <p>Redaktor: Adam Jonkisz, Lesław Niebrój (2010 Wydanie I) Metodologiczne podstawy badań naukowych w medycynie z elementami ogólnej metodologii nauk, ISBN 978-83-7509-136-6.</p>
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Complementary literature:	1. Literature on the subject of scientific research in medical sciences.
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*(1 ECTS CREDIT CORRESPONDS TO 25 - 30 HOURS OF THE TOTAL WORKLOAD OF A DOCTORAL STUDENT, NEEDED TO ACHIEVE THE ESTABLISHED EFFECTS).

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Date and signature of the Course lecturer

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Approved by the Head of the Department or an authorised person