

**A COURSE SYLLABUS – DOCTORAL SCHOOL**  
**REGARDING THE QUALIFICATION CYCLE FROM 2020 TO 2024**

<b>GENERAL INFORMATION ABOUT COURSE</b>				
Course title	PhD seminar			
Name of the unit running the course	Doctoral School at University of Rzeszów			
Type of course ( <i>obligatory, optional</i> )	obligatory			
Year and semester of studies	I-IV / 1-8			
Discipline	health sciences			
Language of Course	Polish			
Name of Course coordinator	Dr hab. Paweł Więch, prof. UR			
Name of Course lecturer	Dr hab. Paweł Więch, prof. UR, Dr hab. Mariusz Dąbrowski, prof. UR			
Prerequisites	Basic knowledge of research methodology and statistics			
<b>BRIEF DESCRIPTION OF COURSE</b> (100-200 words)				
<p>The aim of the doctoral seminar is to prepare the doctoral student (under the substantive supervision of the supervisor) to independently develop and defend the doctoral dissertation, including the use of scientific literature, conducting research, writing and documenting scientific manuscripts. The specific goal is to: prepare the doctoral student for active participation in the life of the scientific community, acquire the ability to conduct a scientific discussion, raise the level of inference in the selected scientific field, develop the ability to communicate with scientists outside their discipline, acquire knowledge and skills necessary in the proper preparation of a doctoral dissertation. The content of the individual years of doctoral studies covers structured issues supporting the progress of the doctoral student's research work. The scope of the seminar work should in particular include: acquiring knowledge from scientific sources as well as data processing and collection. The first year of studies should include the acquisition of the ability to present the general state of knowledge in the undertaken research topic. The second year is aimed at acquiring the ability to indicate the basic methodological assumptions. As part of the third year of studies, it is advisable to conduct a pilot study along with the actual research and to prepare result summaries. The purpose of the fourth year of studies is to present the research results along with their discussion and indication of implications for practice.</p>				
<b>COURSE LEARNING OUTCOMES AND METHODS OF EVALUATING LEARNING OUTCOMES</b>				
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,...)
<b>Knowledge (no.)</b>	He knows and understands			
1.	To the extent enabling the revision of the existing paradigms-a global achievement, including theoretical foundations and issues general and selected specific issues - appropriate for a scientific or artistic discipline	P8S-WG/1	seminar	Completion of the course on the basis of presentation
2.	Main development trends in scientific or artistic disciplines in which education takes place	P8S-WG/2	seminar	Completion of the course on the basis of presentation
3.	Scientific research methodology	P8S-WG/3	seminar	Completion of the course on the basis of presentation and studies on the subject

				the work being prepared doctoral thesis and methodology research
4.	Principles of disseminating the results of scientific activity, also in the mode of open access	P8S-WG/4	seminar	Completion of the course on the basis of presentation
5.	Basic principles of knowledge transfer to the economic and social sphere as well as commercialization of the results of scientific activity and know-how related to these results	P8S-WK/3	seminar	Completion of the course on the basis of presentation
<b>Skills (no.)</b>	Can			
6.	Use knowledge from various fields of science or art for creative identification and innovative solving of complex problems or performing research tasks, in particular: - define the purpose and subject of research, formulate a research hypothesis, - develop methods, techniques and research tools and use them creatively, - make conclusions on the basis of scientific research	P8S-UW/1	seminar	Completion of the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis
7.	Perform a critical analysis and evaluation of the results of scientific research, expert activities and other creative works and their contribution to the development of knowledge	P8S-UW/2	seminar	Completion of the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis
8.	Transfer the results of scientific activity to the economic and social sphere	P8S-UW/3	seminar	Completion of the course on the basis of presentation
9.	Communicate on specialist topics to a degree enabling active participation in the international scientific environment	P8S-UK/1	seminar	Completion of the course on the basis of presentation
10.	Disseminate the results of scientific activity, also in popular forms	P8S-UK/2	seminar	Completion of the course on the basis of presentation
11.	Initiate a debate	P8S-UK/3	seminar	Completion of

				the course on the basis of presentation
12.	Participate in the scientific discourse	P8S-UK/4	seminar	Completion of the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis
13.	Plan and implement individual and team research projects, also in an international environment	P8S-UO	seminar	Completion of the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis
14.	Plan and act for your own development as well as inspire and organize the development of other people	P8S-UU/1	seminar	Completion of the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis
<b>Social competence (no.)</b>	He is ready to			
15.	Critical evaluation of the achievements within a given scientific or artistic discipline	P8S-KK/1	seminar	Completion of the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis
16.	Critical evaluation of one's own contribution to the development of a given scientific or artistic discipline	P8S-KK/2	seminar	Completion of the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis
17.	Recognize the importance of	P8S-KK/3	seminar	Completion of

	knowledge in solving cognitive and practical problems			the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis
18.	Maintaining and developing the ethos of research and creative communities, including: <ul style="list-style-type: none"> <li>- independently conducting research activities</li> <li>- respecting the principle of public ownership of the results of scientific activity, taking into account the principles of intellectual property protection</li> </ul>	P8S-KR	seminar	Completion of the course on the basis of presentation and studies on the subject the work being prepared doctoral thesis

#### LEARNING FORMAT – NUMBER OF HOURS

Semester (no.)	Lectures	Seminars	Lab classes	Internships	others	ECTS
1	-	-	-	-	seminar	-
2	-	-	-	-	seminar	-
3	-	-	-	-	seminar	-
4	-	-	-	-	seminar	-
5	-	-	-	-	seminar	-
6	-	-	-	-	seminar	-
7	-	-	-	-	seminar	-
8	-	-	-	-	seminar	-

#### METHODS OF INSTRUCTION

*Seminar: individual and group work in the implementation of assigned tasks, solving tasks, analysis of research results with discussion, preparation of a presentation and its presentation.*

#### COURSE CONTENT

##### Seminars / Lab classes/ others:

**Semester 1.** Principles of writing doctoral dissertations. Copyright, anti-plagiarism regulations in force at the University of Rzeszów. Principles of research methodology. Selection of the area of research interests based on the analysis of the literature. Development of a research scheme conducted by a doctoral student. (30 hours).

**Semester 2.** Assumption of the first test cycle. Selection of statistical methods for the correct one development of research results. Principles of presentation of research results and statistical analyzes. (30 hours)

**Semester 3.** Conducting a pilot study. Statistical analysis and discussion of the results of the pilot studies. Assessment of potential structural defects of the adopted research tools. (30 hours).

**Semester 4.** Assumption of the second test cycle. Conducting a proper examination. Analysis and discussion of the results of partial research proper. Statistical analysis and discussion of the results of the actual research. (30 hours).

**Semester 5.** Continuation of proper research. Presentation of the results. Analysis and discussion of the results.

(30 hours).

**Semester 6.** Assumptions for the third test cycle. Continuation of proper research. Presentation of the results. Analysis and discussion of the results. (30 hours)

**Semester 7.** Final summary of data from the entire test cycle. Presentation of the result data with discussion. (30 hours)

**Semester 8.** Correct interpretation of three-year research results, discussion, correct conclusions. Development of a scientific monograph or manuscript for a peer-reviewed scientific journal. (30 hours).

#### **COURSE ASSESSMENT CRITERIA**

The doctoral student is obliged to systematically participate in the seminar. The condition for passing the individual parts of the seminar (pass) is the timely submission of the report on the advancement stage of the adopted research project.

#### **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)	20
Non-contact hours – student's own work (preparation for classes or examinations, project, etc.)	>400
<b>Total number of hours</b>	<b>&gt;660</b>
<b>Total number of ECTS credits</b>	<b>0</b>

#### **INSTRUCTIONAL MATERIALS**

Compulsory literature:	1.Lenartowicz H., Kózka M.: Metodologia badań w pielęgniarstwie. Wydawnictwo lekarskie PZWL, Warszawa 2011. 2.Silverman D.: Prowadzenie badań jakościowych. Wydawnictwo Naukowe PWN, Warszawa 2012.
Complementary literature:	1. Webb P, Bain C, Page A.: Epidemiologia. Podręcznik dla studentów i praktyków. Scholar, Warszawa 2021. 2. Łobocki M.: Metody i techniki badań pedagogicznych. Wydawnictwo Impuls, Kraków 2011. 3.Dariusz Radomski, Antoni Grzanka. Metodologia badań naukowych w medycynie Wydawnictwo Naukowe Uniwersytetu Medycznego, Poznań 2011. 4.Jędrzychowski W.: Zasady planowania i prowadzenia badań naukowych. Wyd. Uniwersytetu Jagiellońskiego, Kraków 2004. 5.Zieliński J.: Metodologia pracy naukowej. Oficyna Wydawnicza ASPRA-JR, Warszawa 2012.