

**A COURSE SYLLABUS – DOCTORAL SCHOOL
REGARDING THE QUALIFICATION CYCLE FROM 2021 TO 2025**

GENERAL INFORMATION ABOUT COURSE				
Course title	Doctoral 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 year/I-VIII semester			
Discipline	Health Sciences			
Language of Course	Polish			
Name of Course coordinator	Hab. MD Lidia Perenc, Assistant professor			
Name of Course lecturer	Hab. MD Lidia Perenc, Assistant professor			
Prerequisites	Before starting the course, a doctoral school student has the knowledge, skills and competences from the completed level 7 of the Polish Qualification Framework.			
BRIEF DESCRIPTION OF COURSE (100-200 words)				
<p>Objective: writing a doctoral dissertation, learning about the principles of knowledge transfer to the economic and social sphere.</p> <p>A doctoral school student makes a preliminary analysis of the prepared literature and selects the area of research interest on the basis of the analysis of the literature. Sets the topic of the doctoral dissertation. Defines the goal and research hypotheses. Agrees the methodology of own research. Edits and submits a full application to the bioethics committee. Conducts and reports on a pilot study. Reports the results of the pilot study. Performs a full discussion of the results of own research, taking into account the statistical analysis - which resulted in the creation of the chapter of the doctoral dissertation titled 'Results'. Perfects and finally prepares following chapters: introduction to the doctoral dissertation, research objective, research hypotheses, material and method, research results, discussion, verification of hypotheses, conclusions and limitations related to own research. Prepares the correct citation and editing of the literature, formats the work in accordance with the adopted rules. Assesses the doctoral dissertation in the anti-plagiarism system. Prepares a short multimedia presentation of the doctoral dissertation. He studies: the principles of disseminating the results of scientific activity, also in the open access mode, the basic principles of the transfer of knowledge to the economic and social sphere and the commercialization of the results of scientific activity and know-how related to these results.</p>				
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	To the extent enabling a revision of the existing paradigms - global achievements, covering theoretical foundations as well as general issues and selected specific issues - appropriate for a scientific or artistic discipline	P8S-WG/1	Seminar	Semester I
2	Main developmental trends in scientific or artistic disciplines in which education takes place	P8S-WG/2	Seminar	Semester I
3	Scientific research methodology	P8S-WG/3	Seminar	Semester II
4	Principles of disseminating the results of	P8S-WG/4	Seminar	Semester VIII

	scientific activity, also in the mode of open access			
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	Semester VIII
Skills (no.)	Is able to:			
1	Use knowledge from various fields of science or art for the 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	Semester II, III, IV, VI, VII
2	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	Semester VII
3	Transfer the results of scientific activity to the economic and social sphere	P8S-UW/3	Seminar	Semester VIII
4	Communicate on specialist topics to a degree enabling active participation in the international scientific environment	P8S-UK/1	Seminar	Semester VIII
5	Disseminate the results of scientific activity, also in popular forms	P8S-UK/2	Seminar	Semester VIII
6	Initiate a debate	P8S-UK/3	Seminar	Semester VII
7	Participate in a scientific discourse	P8S-UK/4	Seminar	Semester VII
8	Plan and implement individual and team research projects, also in an international environment	P8S-UO	Seminar	Semester I
9	Independently plan and act for own development as well as inspire and organize the development of other people	P8S-UU/1	Seminar	Semester I
Social competence (no.)	Is ready to:			
1	Critical evaluation of the achievements within a given scientific or artistic discipline	P8S-KK/1	Seminar	Semester VII
2	Critical evaluation of one's own contribution to the development of a given scientific or artistic discipline	P8S-KK/2	Seminar	Semester VII
3	Recognize the importance of knowledge in solving cognitive and practical problems	P8S-KK/3	Seminar	Semester III
4	Maintaining and developing the ethos of research and creative communities, including: - conducting scientific activities in an independent manner	P8S-KR	Seminar	Semester IV

	- respecting the principles of public ownership of the results of scientific activity, taking into account the principles of intellectual property protection			
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--

LEARNING FORMAT – NUMBER OF HOURS

Semester (no.)	Lectures	Seminars	Lab classes	Internships	others	ECTS
I-VIII	-	Seminar	-	-	240	0

METHODS OF INSTRUCTION

E.G, LECTURE: A PROBLEM-SOLVING LECTURE/A LECTURE SUPPORTED BY A MULTIMEDIA PRESENTATION/ DISTANCE LEARNING CLASSES: TEXT ANALYSIS AND DISCUSSION/PROJECT WORK (RESEARCH PROJECT, IMPLEMENTATION PROJECT, PRACTICAL PROJECT)/ GROUP WORK (PROBLEM SOLVING, CASE STUDY, DISCUSSION)/DIDACTIC GAMES/ DISTANCE LEARNING LABORATORY CLASSES: DESIGNING AND CONDUCTING EXPERIMENTS)

DOCTORAL SEMINAR: DISCUSSION, INDIVIDUAL WORK.

PHD STUDENT'S OWN WORK: LITERATURE ANALYSIS, CONDUCTING RESEARCH, WRITING A DOCTORAL DISSERTATION, PREPARING A MULTIMEDIA PRESENTATION.

COURSE CONTENT

Doctoral seminar

Semester I

Initial analysis of the prepared literature.

Selection of the area of research interest based on the analysis of the literature. Setting the topic of the thesis.

Semester II

Defining the purpose of the research and research hypotheses.

Agreeing on the research methodology.

Completing a full application to a bioethics committee.

Semester III

Conducting a pilot study. Discussion of the results of the pilot study.

Semester IV

Conducting research. Initial discussion of the results.

Semester V

Discussion of the statistical analysis of the obtained research results.

Preparation of an introductory chapter to the doctoral dissertation.

Semester VI

Preparation of a chapter describing the aim of the work and the hypothesis.

Preparation of a chapter describing the studied material and methods.

Preparation of a chapter related to the discussion of the results.

Semester VII

Verification of hypotheses.

Development of a detailed discussion based on the collected literature.

Formulating conclusions resulting from the work.

Correct citation and editing of the literature.

Semester VIII

Completion and formatting in accordance with the accepted principles of the doctoral dissertation.

Assessment of the doctoral dissertation in the anti-plagiarism system.

Preparation of a short multimedia presentation of the doctoral dissertation.

COURSE ASSESSMENT CRITERIA

Semester: I, W.1: P8S-WG/1: Knows: to the extent enabling a revision of the existing paradigms - world achievements, covering theoretical foundations as well as general issues and selected specific issues - appropriate for a scientific or artistic discipline: **credit on the basis of a preliminary written analysis of the**

literature in terms of the selection of the topic of the doctoral dissertation.

Semester: I, W.2: P8S-WG/2: Knows the main development trends of scientific or artistic disciplines in which education takes place: **completion (pass) on the basis of an independently performed selection of the area of research interest based on the analysis of the literature and determination of the topic of the doctoral dissertation.**

Semester: II, W.3: P8S-WG/3: Knows the methodology of scientific research: completion (pass) on the basis of developing a methodology of scientific research (aim of the work, hypotheses, material, method) and its written presentation in the application to the bioethics committee: **credit on the basis of submission of a written application to a bioethical committee - assessed parts: aim of the research, hypotheses, material, method.**

Semester II, U.9: P8S-UU/1: Can independently plan and act for his own development and inspire and organize the development of other people: **credit on the basis of a written application to the bioethics committee - assessed part: schedule of own research.**

Semester III: U.8: P8S-UO: Plan and implement individual and team research projects, also in an international environment: **credit on the basis of a written report on a pilot study.**

Semester IV: U.1: P8S-UW/1: Can use knowledge from various fields of science or art for creative identification and innovative solving of complex problems or performing research tasks, in particular:

- to develop methods, techniques, research tools and use them creatively: **credit on the basis of a written research report.**

Semester V: U.2: P8S-UW/2: Can make a critical analysis and evaluation of the results of scientific research, expert activity and other creative works and their contribution to the development of knowledge: **credit on the basis of a thorough written analysis of the results of own research (dissertation chapter: discussion of the results).**

Semester V: K.1: P8S-KK/1: Is ready for a critical evaluation of the achievements in a given scientific or artistic discipline: **credit on the basis of a written presentation of the introductory chapter to the doctoral dissertation (introduction).**

Semester VI: U.1: P8S-UW / 1: Can 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: **credit on the basis of a written presentation of the chapters of a doctoral dissertation: purpose of the work, research hypotheses, material and method.**

Semester VII: U.1: P8S-UW/1: Can use knowledge from various fields of science or art for creative identification and innovative solving of complex problems or performing research tasks, in particular:

- make conclusions on the basis of scientific research: **credit on the basis of a written presentation of chapters of a doctoral dissertation: verification of hypotheses.**

Semester VII: U.4: P8S-UK/1: Is ready to communicate on specialist topics to a degree enabling active participation in the international scientific environment: **credit is based on a written form of discussion related to a doctoral dissertation – using of specialist scientific terms.**

Semester VII: U.6: P8S-UK/3 Can initiate a debate: **credit based on a written form of discussion in a doctoral dissertation - first paragraph.**

Semester VII: U.7: P8S-UK/4: Is ready to participate in the scientific discourse: **credit on the basis of a written discussion in a doctoral dissertation - an objective comparison of the results of own and other researchers' studies.**

Semester VII: K.2: P8S-KK/2: Is ready to critically evaluate his own contribution to the development of a given scientific or artistic discipline: **credit on the basis of a written presentation of the limitations of own research at the end of the chapter: discussion.**

Semester VII: K.3: P8S-KK/3: Recognition of the importance of knowledge in solving cognitive and practical problems: **credit based on the determination of final conclusions in the doctoral dissertation, which are the solution to the research problems presented in the thesis.**

Semester VII: K.4: P8S-KR: Is ready to maintain and develop the ethos of research and creative environments, including:

- independently conducting research activities

- respecting the principle of public ownership of the results of scientific activity, taking into account the principles of intellectual property protection: **credit based on the presentation of the correct rules for**

citation and editing of the literature in the doctoral dissertation.

Semester: VIII: U.5: P8S-UK/2: Disseminate the results of scientific activity, also in popular forms: **credit based on the presentation of a short multimedia presentation of a doctoral dissertation.**

Semester: VIII, W.4: P8S-WG/4: Knows the rules of disseminating the results of scientific activity, also in the open access mode: **credit after an oral exam.**

Semester: VIII, W.5: P8S-WK/3: Knows the basic principles of knowledge transfer to the economic and social sphere and the commercialization of the results of scientific activity and know-how related to these results: **credit after an oral exam.**

Semester: VIII: U.3: P8S-UW/3: Transfer the results of scientific activity to the economic and social sphere: **credit after conducting an oral exam.**

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 (30 hours in each semester for 4 years)
Other contact hours involving the teacher (consultation hours, examinations)	16 (2 hours in each semester for 4 years)
Non-contact hours – student's own work (preparation for classes or examinations, project, etc.)	320 (40 hours in each semester for 4 years)
Total number of hours	576
Total number of ECTS credits	23

INSTRUCTIONAL MATERIALS

Complementary literature:	<ol style="list-style-type: none">1. Red. L. Perenc: Różnorodność problemów klinicznych i badawczych w naukach o zdrowiu. Tom I. Wydawnictwo Uniwersytetu Rzeszowskiego 2021, p-ISBN 978-83-7996-901-2.2. Red. L. Perenc: Różnorodność problemów klinicznych i badawczych w naukach o zdrowiu. Tom II. Wydawnictwo Uniwersytetu Rzeszowskiego 2021, p- ISBN 978-83-7996-902-9.
Compulsory literature:	<ol style="list-style-type: none">1. Red. L. Perenc: Współczesne kierunki badań w naukach o zdrowiu. Wydawnictwo Uniwersytetu Rzeszowskiego, 2020, p-ISBN: 978-83-7996-814-5