A COURSE SYLLABUS – DOCTORAL SCHOOL

REGARDING THE QUALIFICATION CYCLE FROM YEAR 2022 TO YEAR 2026.

GENERAL INFORMATION ABOUT COURSE	
Course title	**Doctoral Laboratory**
Name of the unit running the course	Doctoral School at University of Rzeszów
Type of course *(obligatory, optional)*	Obligatory
Year and semester of studies	II/ semestr III-IV
Discipline	Medical Sciences
Language of Course	Polish
Name of Course coordinator	Prof. dr hab. n. med. Dorota Darmochwał-Kolarz
Name of Course lecturer	Prof. dr hab. n. med. Dorota Darmochwał-Kolarz
Prerequisites	Oral report on the implementation of writing a doctoral dissertation

BRIEF DESCRIPTION OF COURSE
(100-200 words)

Individual consultations in the form of regular, cyclical meetings with a research supervisor devoted to the work on the doctoral dissertation.

- The aim of the classes is to plan and determine the methodological preparation for writing a doctoral dissertation, as well as to discuss the prospects for further plans for scientific development.
- Analysis of scientific literature: review and critical analysis of existing scientific works related to the topic of research

• Handling information and effective use of technological information technology: principles of citation, selection of literature.
• Data collection and analysis: carrying out research, collecting data and analyzing it appropriately using appropriate tools
• Discussion of intensive obstetric surveillance in pregnancies complicated by intrauterine fetal growth restriction
• Assessment of growth potential in pregnancies seen for intrauterine growth restriction. • Analysis of the Doppler ultrasound examination in the assessment of the intrauterine condition of the fetus.
• Analysis of the performance and interpretation of cardiotocographic examination in the evaluation of the intrauterine condition of the fetus.
• Innovative scientific contribution: introduction of new concepts, theories or solutions contributing to the development of a research field

Methods of conducting classes:

- Written report
- Oral presentations
- Discussion panel

Objectives and aims of the course:

- Assessment of the progress of the research work constituting the basis of the doctoral dissertation:
- Developing detailed knowledge in the area of research forming the basis of a doctoral dissertation
- Developing the general knowledge of the discipline of medicine and medical biology
- Teaching practice - oral presentation, evaluation of other doctoral students' presentations, participation in the discussion as a speaker and listener

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)**			
I	Context - conditions and effects	The aim of the classes is to plan and determine the methodological preparation for writing a doctoral dissertation P8S_WG/1 P8S_WG/2 P8S_WG/3 P8S_WG/4	Seminar	Discussion, multimedia presentation
Skills (no.)	**(Able to)**			
I	Communication - receiving and creating statements, disseminating knowledge in the scientific community and using a foreign language	P8S-UK / 4 To participate in the scientific discourse P8S_UW/1 P8S_UW/2 P8S_UW/3	Seminar	Discussion, multimedia presentation
Social competence (no.)	**(Ready to)**			

I	Professional role - responsibility and ethos development	P8S-KR Maintaining and developing the ethos of research and creative communities, including: - conducting scientific activities in an independent manner - respecting the principle of public ownership of the results of scientific activity, taking into account the principles of intellectual property protection	Seminar	Discussion, multimedia presentation

LEARNING FORMAT – NUMBER OF HOURS

Semester (no.)	Lectures	Seminars	Lab classes	Internships	others	ECTS
III and IV	_	_	_	_	60	6

METHODS OF INSTRUCTION

Discussion panel, multimedia presentation, own work

COURSE CONTENT

Plan of the doctoral workshop:

• The aim of the classes is to plan and determine the methodological preparation for writing a doctoral dissertation, as well as to discuss the prospects for further plans for scientific development.

• Handling information and effective use of technological information technology: principles of citation, selection of literature.

• Discussion of intensive obstetric surveillance in pregnancies complicated by intrauterine growth restriction.

• Assessment of growth potential in pregnancies seen for intrauterine growth restriction. • Analysis of the Doppler ultrasound examination (vascular flow) in the assessment of the intrauterine condition of the fetus.

• Analysis of the performance and interpretation of cardiotocographic examination in the evaluation of the intrauterine condition of the fetus.

COURSE ASSESSMENT CRITERIA

The pass mark is an active participation in the seminar consisting in asking questions and conducting a substantive discussion on the presentation of the research results presented during the seminar.

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	60
Other contact hours involving the teacher (consultation hours, examinations)	_
Non-contact hours – student`s own work (preparation for classes or examinations, project, etc.)	
Total number of hours	60
Total number of ECTS credits	6

INSTRUCTIONAL MATERIALS	
Compulsory literature:	**1.** Kwiatkowski S, Torbe A, Borowski D i WSP. Polish Society of Gynecologists and Obstetricians Recommendations on diagnosis and management of fetal growth restriction. Ginekologia i Perinatologia Praktyczna 2020; 5(3): 119–130. **2.** Pietryga M, Borowski D, Brązert J, et al. Rekomendacje Sekcji Ultrasonografii Polskiego Towarzystwa Ginekologicznego w zaskresie przesiewowej diagnostyki ultrasonograficznej w ciąży o przebiegu - 2015r. Ginekol Pol. 2015; 86(7): 551–559. **3.** Ego A, Zeitlin J, Batailler P i wsp. Stillbirth classification in population-based data and role of fetal growth restriction: the example of RECODE. BMC Pregnancy Childbirth. 2013; 13: 182
Complementary literature:	**1.** Kajdy A, Modzelewski J, Jakubiak M, et al. Effect of antenatal detection of small-for-gestational-age newborns in a risk stratified retrospective cohort. PLoS One. 2019; 14(10): e0224553. **2.** Wojtyła A, Goździewska M, Paprzycki P, et al. Tobacco-related Foetal Origin of Adult Diseases Hypothesis--population studies in Poland. Ann Agric Environ Med. 2012; 19(1): 117–128.