A COURSE SYLLABUS – DOCTORAL SCHOOL

REGARDING THE QUALIFICATION CYCLE FROM 2022 TO 2026.

GENERAL INFORMATION ABOUT COURSE	
Course title	**WORKSHOPS WITH AN EXPERT:**
Name of the unit running the course	Doctoral School at University of Rzeszów
Type of course *(obligatory, optional)*	obligatory
Year and semester of studies	Year III / semester VI
Discipline	biological sciences
Language of Course	English
Name of Course coordinator	Prof. dr hab. Dariya Fedorovych
Name of Course lecturer	Prof. dr hab. Dariya Fedorovych
Prerequisites	Conducting research in the field of biological sciences

BRIEF DESCRIPTION OF COURSE
(100-200 words)

The class is designed to provide an in-depth analysis of the specialized issues involved in preparing a doctoral dissertation

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)** The content of the learning effect defined for the subject on the basis of the Reference to the learning outcomes for qualifications at PRK level 8 from the educational program.			
P8S-WG2	has extensive knowledge of research directions and the latest discoveries, including global interest in current research in the biological sciences	P8S-WG	conversatory	credit/report
P8S_WK1	is aware of the impact of technical and technological developments on the progress of civilisation and the consequences thereof	P8S-WK	conversatory	credit/report
Skills (no.)	**(Able to)** The content of the learning effect defined for the subject on the basis of the Reference to the learning outcomes for qualifications at PRK level 8 from the educational program.			
P8S_UW1	Based on extensive knowledge, they are able to identify and solve various scientific problems related to the discipline in which the doctoral student conducts scientific research, define the purpose and subject of scientific research, formulate a research	P8S_UW	conversatory	credit/report

	hypothesis, develop research methods, techniques and tools, and draw conclusions based on the results obtained.			
P8S_UK6	is fluent in a foreign language (minimum level B2 ECTS), is able to present the results of their scientific research and participate in discussions on scientific topics in various national and international environments.	P8S_UK	conversatory	credit/report
P8S_UU1	acquire knowledge from various reliable sources, deepen their scientific skills based on current interdisciplinary knowledge, and inspire others to take action and develop.	P8S_UU	conversatory	credit/report
P8S_UU2	thanks to his/her extensive knowledge, is able to inspire others and take care of others' learning process, is able to use the available modern teaching methods and tools.	P8S_UU	conversatory	credit/report
P8S_UU3	through continuous learning, update their interdisciplinary knowledge in the field of biological sciences, improve their own competences, and plan their own development and that of others.	P8S_UU	conversatory	credit/report
Social competence (no.)	**(Ready to)** The content of the learning effect defined for the subject on the basis of the Reference to the learning outcomes for qualifications at PRK level 8 from the educational program.			
P8S_KK1	critically evaluate artistic achievements in the field of the doctoral thesis topic within the selected scientific discipline - biological sciences	P8S_KK	conversatory	credit/report
P8S_KK2	critically assess your own artistic contribution to the body of work within the scientific discipline you practise: biological sciences in the subject of your written thesis	P8S_KK	conversatory	credit/report
P8S_KK3	solving theoretical and practical problems using knowledge from the scientific discipline and related disciplines in issues related to writing a thesis	P8S_KK	conversatory	credit/report

LEARNING FORMAT – NUMBER OF HOURS

Semester (no.)	Lectures	Seminars	Lab classes	Internships	others	ECTS
VI	-	-	-	-	5	1

METHODS OF INSTRUCTION
- auditorium conversion,
COURSE CONTENT
1. Riboflavin biosynthesis and its regulation in yeast 2. Analytical methods for the riboflavin and roseoflavin determination in yeast cells and culture medium 3. Metabolic engineering of yeast for riboflavin and roseoflavin overproduction
COURSE ASSESSMENT CRITERIA
Credit after the semester of the course implementation, the doctoral student prepares a report thematically related to the program content of the course. The applicable grading scale for the course: (zal.)- passed, (nzal.)- failed.
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	**5 hrs.**
Other contact hours involving the teacher (consultation hours, examinations)	**1 hrs.**
Non-contact hours – student's own work (preparation for classes or examinations, project, etc.)	**22 hrs.**
Total number of hours	**28 hrs.**
Total number of ECTS credits	**1**

INSTRUCTIONAL MATERIALS	
Compulsory literature:	**LITERATURE RELATED TO THE DISSERTATION TOPIC**
Complementary literature:	———————————

*(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