

A COURSE SYLLABUS – DOCTORAL SCHOOL
REGARDING THE QUALIFICATION CYCLE FROM 2024/2025 TO 2027/2028

GENERAL INFORMATION ABOUT COURSE				
Course title		DOCTORAL SEMINAR		
Name of the unit running the course		Doctoral School at the University of Rzeszów		
Type of course (<i>obligatory, optional</i>)		obligatory subject		
Year and semester of studies		year I -IV, semester: I - VII		
Discipline		Medical sciences		
Language of Course		Polish/English		
Name of Course coordinator		Dr David Aebisher, Professor at the University of Rzeszów		
Name of Course lecturer		Dr David Aebisher, Professor at the University of Rzeszów		
Prerequisites		Possession of a professional medical degree or advanced education in medicine – uniform master's degree programme. Knowledge of specialised English enabling fluent reading of scientific texts and conducting scientific discussions in this language.		
BRIEF DESCRIPTION OF COURSE (100-200 words)				
The aim of the Doctoral Seminar course is to prepare doctoral students to conduct independent scientific activity. Based on the acquired knowledge, social competences and skills, doctoral students will participate in scientific life in a mature and active manner. Based on the available global literature, they will define research problems, properly formulate hypotheses and research objectives (general and specific), and adequately select research methods and techniques to solve scientific problems. Based on the experimental data obtained in the laboratory, they will acquire the ability to draw accurate conclusions, which will translate into writing scientific papers and a doctoral dissertation in Polish and English, as well as presenting their own research results (multimedia presentation) and conducting scientific discussions also in English. The aim of the seminar is also to convince doctoral students of the importance of establishing scientific cooperation with various research and scientific centres.				
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_WG1	He has extensive theoretical knowledge supported by global research in the field of medical science and has general knowledge of related disciplines in his area of scientific interest. He is perfectly versed in current global scientific achievements.	P8S_WG	seminar	oral statement, discussion
P8S_WG2	He is well versed in the latest global developments and scientific discoveries in the field of medical science and related disciplines, thematically related to the doctoral student's scientific research.	P8S_WG	seminar	oral statement, discussion

P8S_WG3	Communicates using specialist terminology used in the discipline of medical sciences and related disciplines, in Polish and in a foreign language in the scientific and professional environment.	P8S_WG	seminar	oral statement, discussion
Skills (no.)	can			
P8S_UW1	Based on their extensive interdisciplinary knowledge, doctoral students identify and solve research problems, define the purpose and subject of scientific research, formulate research hypotheses, select and modify research methods, techniques and tools, and draw conclusions based on the results obtained.	P8S_UW	seminar	oral statement, discussion
P8S_UW2	With the support of available global scientific literature, doctoral students accurately diagnose and solve research problems and implement innovative measures in connection with their scientific work. They are also able to apply the appropriate tools to create new elements of scientific output.	P8S_UW	seminar	oral statement, discussion
P8S_UW3	The doctoral student is able to independently expand their analytical skills based on the knowledge they acquire, and is able to stimulate critical sensitivity to recognise dilemmas when conducting scientific research and performing the role of an academic teacher and social activist.	P8S_UW	seminar	oral statement, discussion
P8S_UK6	In the national and international scientific and professional environment, they are able to exchange scientific ideas using a foreign language at level B2 of the Common European Framework of Reference for Languages.;	P8S_UK	seminar	oral statement, discussion
Social competence (no.)	is ready to			
P8S_KK1	The doctoral student is prepared to face critical assessment of their achievements within their chosen scientific discipline:	P8S_KK	seminar	oral statement, discussion

studied, knowledge expansion, research implementation, commitment and progress in the preparation of the doctoral thesis. Possible semester grades are: 2.0, 3.0, 3.5, 4.0, 4.5, 5.0.

Percentage requirements for the grading scale:

- 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 duties);
- 91% - 100% - very good (the doctoral student makes significant progress in scientific research, systematically expands their knowledge, studies basic and supplementary literature as well as literature beyond the required scope, 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	7 x 15 hrs. – 105 hrs.
Other contact hours involving the teacher (consultation hours, examinations)	10
Non-contact hours – student's own work (preparation for classes or examinations, project, etc.)	305
Total number of hours	420
Total number of ECTS credits*	14

INSTRUCTIONAL MATERIALS

Compulsory literature:	Medical databases (PubMed, Scopus, Web of Science) Handbook of Low-Level Laser Therapy by Michael R. Hamblin, Tanupriya Agrawal, Marcelo de Sousa, Jenny Stanford Publishing 2016
Complementary literature:	Michael R. Hamblin, Imaging in Photodynamic Therapy, Wydawnictwo Taylor & Francis Inc, luty 2017

*(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