

## **EDUCATION PROGRAM OF THE DOCTORAL SCHOOL CONDUCTED BY THE UNIVERSITY OF RZESZÓW**

### **1. GENERAL CHARACTERISTICS OF THE EDUCATION PROGRAM**

- 1) The education program implemented in the Doctoral School conducted by the University of Rzeszów has been developed in accordance with the Act of July 20, 2018, on Higher Education and Science and the guidelines in force at the University of Rzeszów.
- 2) The Doctoral School at the University of Rzeszów prepares students to obtain a doctoral degree in scientific and artistic disciplines within the fields of science and art:
  - a) humanities in the disciplines: archaeology, philosophy, history, linguistics, literary studies,
  - b) engineering and technology in the disciplines: information and communication technology, materials engineering,
  - c) medical and health sciences in the disciplines: medical sciences, physical culture science, health sciences,
  - d) agricultural sciences in the disciplines: agriculture and horticulture, food and nutrition technology,
  - e) social sciences in the disciplines: economics and finance, political and administrative sciences, law, sociology, educational sciences,
  - f) natural sciences in the disciplines: biotechnology, mathematics, biological sciences, physical sciences,
  - g) the arts in the disciplines: music, fine arts and art conservation.
- 3) Education in the Doctoral School at the University of Rzeszów is conducted based on the education program and an individual research plan, lasts from 6 to 8 semesters, and is carried out in accordance with the principles of the European Charter for Researchers.
- 4) The official language of education in Rzeszów University Doctoral School is Polish. For international doctoral students, there is the possibility to complete the entire education program in English.
- 5) The implementation of education in Rzeszów University Doctoral School enables the achievement of learning outcomes for classification at level 8 of the Polish Qualifications Framework, as specified in the Regulation of the Minister of Science and Higher Education of November 14, 2018, regarding the characteristics of second-level learning outcomes for qualifications at levels 6-8 of the Polish Qualifications Framework (Journal of Laws of 2018, item 2218).
- 6) Detailed rules for achieving learning outcomes and methods of their evaluation are defined in the syllabuses of the studied subjects. The syllabus template for subjects in both Polish and English is specified in Annex No. 1 and Annex No. 2 to this education program.

- 7) A total of 84 ECTS points have been assigned to the education program implemented in the Doctoral School conducted by the University of Rzeszów.

***2. THE DETAILED REQUIREMENTS AND ADMISSION CRITERIA ARE SPECIFIED IN THE RESOLUTION OF THE SENATE OF THE UNIVERSITY OF RZESZÓW ON THE PRINCIPLES AND PROCEDURES FOR ADMISSION TO RZESZÓW UNIVERSITY DOCTORAL SCHOOL FOR THE GIVEN ACADEMIC YEAR.***

***3. THE ALIGNMENT OF THE EDUCATION PROGRAM IN RZESZÓW UNIVERSITY DOCTORAL SCHOOL WITH THE MISSION AND DEVELOPMENT STRATEGY OF THE UNIVERSITY OF RZESZÓW.***

- 1) Rzeszów University Doctoral School creates an environment for education and scientific research in the fields of humanities, engineering and technology, medical and health sciences, agricultural sciences, social sciences, natural sciences, and arts.
- 2) Rzeszów University Doctoral School aligns with the expectations of the academic community at the University of Rzeszów and the external environment in terms of education, preparing students to conduct high-quality scientific research aimed at obtaining a doctoral degree, conducting and disseminating scientific research, and fostering scientific collaboration with academic institutions in Poland and abroad.
- 3) Rzeszów University Doctoral School fulfils a cultural formative role.
- 4) Rzeszów University Doctoral School, as an integral part of the University of Rzeszów, remains faithful to universal university ideals: the pursuit of truth, adherence to ethical norms, protection of academic freedom, openness to knowledge, respect for individuals, and the ability to cooperate regardless of worldview, ethnic, and religious differences.
- 5) Rzeszów University Doctoral School pursues the ideals of scientific, educational, and artistic excellence and educates future elites responsible for the development of Poland, Europe, and the world.
- 6) Rzeszów University Doctoral School offers education leveraging the interdisciplinary educational potential of the University of Rzeszów.
- 7) Rzeszów University Doctoral School implements an education program that promotes the latest advancements in scientific knowledge.
- 8) Rzeszów University Doctoral School implements an education program focused on developing the skills of the young academic staff in the implementation of scientific thought, which drives scientific progress in the economic and social sphere.

#### **4. EDUCATIONAL GOALS**

Rzeszów University Doctoral School provides the opportunity to acquire comprehensive knowledge in specific fields of science and scientific disciplines, as well as in the field of arts and artistic disciplines. The main goal of education at Rzeszów University Doctoral School is to prepare doctoral candidates to independently conduct scientific or artistic work, prepare a doctoral dissertation, and obtain a doctoral degree.

The educational goals include, in particular:

- 1) providing doctoral candidates with knowledge that enables them to draw on the achievements of global scientific contributions for solving scientific problems;
- 2) expanding the skills of doctoral candidates in developing existing and creating new research methods, techniques, and tools, as well as their creative application in practice, including the development of new materials, methods, technologies, and products;
- 3) acquiring by doctoral candidates the knowledge in research methodology appropriate to their field of study, including for the purpose of transferring the results of their research to the economic and social spheres;
- 4) acquiring by doctoral candidates the skills to solve research problems related to designing legal and organizational conditions that promote the development of their research activities;
- 5) acquiring by doctoral candidates the skills in planning and executing individual and team research or creative projects, as well as the ability to lead a group and take responsibility for it;
- 6) providing doctoral candidates with practical and methodological skills that ensure scientific independence, including participation in the exchange of ideas, also in an international environment, while planning and organizing team projects;
- 7) providing doctoral candidates with the skills necessary for independent planning of their own development, and for articulating impactful concepts within their environment;
- 8) acquiring by doctoral candidates the skills and competencies in developing education and training programs using modern methods and tools;
- 9) maintaining and developing the ethos of research and creative environments by doctoral candidates, particularly through promoting models of proper conduct in the workplace and other environments, as well as contributing creatively to improving the quality and culture of collaboration;
- 10) preparing doctoral candidates to independently communicate scientific issues to a general audience.

#### **5. GRADUATE PROFILE**

A graduate of the Doctoral School conducted by the University of Rzeszów is an individual who:

- 1) has achieved the expected learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (PRK);
- 2) has completed the education program of the Doctoral School conducted by the University of Rzeszów;
- 3) has completed the individual research plan;
- 4) has obtained a positive result in the mid-term evaluation;
- 5) has in their academic portfolio at least: 1 scientific article published in a scholarly journal or in peer-reviewed proceedings of an international conference, or 1 scientific monograph or a chapter in such a monograph, or an artistic work of significant importance, in accordance with the provisions of Article 186(1)(3) of the Law on Higher Education and Science;
- 6) has submitted the doctoral dissertation.

The graduate of Rzeszów University Doctoral School, broad knowledge in the field of study in which they have completed their education and is proficient in the specialized terminology typical for the given discipline, including in a foreign language. They are familiar with research methodologies, able to plan and conduct scientific/artistic research, and apply it in their scholarly activities, including through: preparing and publishing scientific articles, organizing exhibitions, participating in exhibitions, competitions, and artistic projects, as well as preparing and presenting scientific papers at national and international conferences. The graduate is aware of the need for collaboration at regional, national, and international levels and is prepared to transfer the results of their research to the economic and social spheres, as well as in the fields of culture and art. The graduate is also prepared to take on the role of an academic teacher using modern methods and tools. Additionally, the graduate possesses the necessary knowledge in obtaining research funding and the skills to prepare applications for research grants, as well as managing and reporting on research projects. The graduate is able to plan and implement both individual and collaborative research or creative projects, and also has the competence to responsibly lead a research team, including interdisciplinary and international teams. The graduate understands the importance of cooperation with the socio-economic environment and is aware of the ethos of the scientific and creative community. They are knowledgeable about the ethical principles governing scientific work and the legal regulations regarding intellectual property protection. Furthermore, the graduate is aware of the importance of actively promoting proper conduct within the work environment and other settings, as well as continually improving the quality and culture of collaboration.

#### **6. DESCRIPTION OF THE EXPECTED LEARNING OUTCOMES IN THE DOCTORAL SCHOOL AT THE UNIVERSITY OF RZESZÓW**

| Universal descriptor | Descriptive category and basic | Descriptor code | Polish Qualifications Framework (PRK) level 8 |
|----------------------|--------------------------------|-----------------|---|
|----------------------|--------------------------------|-----------------|---|

|   | aspects of the universal descriptor   |               |  |
|---|---|---------------|--|
| <b>Knowledge: knows and understands</b> | <b>Scope and completeness, depth of the cognitive perspective, dependencies</b> | <b>P8S_WG</b> | 1. the world's achievements relating to:<br>- theoretical foundations as well as general and selected specific issues of the academic or artistic discipline at a level enabling the revision of existing paradigms;   |
|   |   |               | 2. the scientific developments and the newest scientific achievements in the selected academic discipline, recent scientific advancements, both national and international, within the discipline;   |
|   |   |               | 3. the conceptual framework of a given discipline (including its primary foreign language) and related disciplines;  |
|   |   |               | 4. the methodology of scientific research, including the principles of research planning and implementation using interdisciplinary research techniques and tools;   |
|   |   | <b>P8S_WK</b> | 1. the fundamental dilemmas of modern civilization;  |
|   |   |               | 2. ethical standards applicable to researchers and academic teachers, as well as principles of intellectual property protection and copyright law, including the management of intellectual property resources and the legal and economic conditions of scientific activity;         |
|   |   |               | 3. principles of knowledge transfer to the economic and social spheres, as well as principles of commercialization of scientific research results.   |
| <b>Skills: is able to</b>               | <b>Problem solving and applying knowledge in practice</b>                       | <b>P8S_UW</b> | 1. take advantage of knowledge from different academic or artistic fields to creatively identify, formulate and innovatively solve complex problems or perform research activities, especially:<br>- to define the aim and subject of the research, formulate a research hypothesis, |

|  |   |               |  |
|--|---|---------------|--|
|  |   |               | - develop research methods, techniques and tools and use them creatively,<br>- draw conclusions on the basis of research results;  |
|  |   |               | 2. take advantage of scientific literature to identify and solve research problems and those related to innovative activities, as well as a to apply the appropriate methods to create new contributions to this field of knowledge;   |
|  |   |               | 3. conduct a critical analysis and evaluation of scientific research results, expert activities, and other creative works, as well as their contribution to the development of knowledge;  |
|  |   |               | 4. transfer the results of research studies to the economic and social spheres;  |
|  | <b>Communication:<br/>understanding and formulating statements, disseminating knowledge in the academic community, using a foreign language</b> | <b>P8S_UK</b> | 1. communicate on expert topics to a degree that enables active participation in the international scientific community;   |
|  |   |               | 2. write and prepare for publication a scientific article or monograph, including popular science publications within the selected discipline in both Polish and a foreign language; prepare and organize an individual thematic exhibition, an art project – an artistic event, and prepare an appropriate critical text (self-commentary, main assumptions of the idea and concept of the given artistic project), prepare event documentation (catalogue, artistic monograph, critical text) for publication; |
|  |   |               | 3. organize or actively participate in scientific conferences;   |
|  |   |               | 4. initiate scientific debates based on scientific evidence;   |
|  |   |               | 5. participate in academic discourse;  |
|  |   |               | 6. use a foreign language at the B2 level of the Common European Framework of Reference for Languages to a degree that enables participation in international academic and professional communities;   |

|                                       |  |               |   |
|---------------------------------------|--|---------------|---|
|                                       | <b>Organising work: planning and team work</b>   | <b>P8S_UO</b> | 1. plan and implement one's own and a team's research or creative work, also in the international community;  |
|                                       | <b>Learning: planning personal development and the development of others</b>           | <b>P8S_UU</b> | 2. prepare a grant application for funding a research project;  |
|                                       |  |               | 1. autonomously plan and act on behalf of personal development based on current interdisciplinary knowledge in order to expand and deepen one's own competence, as well as inspire the development of others;   |
|                                       |  |               | 2. plan classes or groups of classes and conduct them using modern tools and methods;   |
|                                       |  |               | 3. plan one's own development, systematically update one's interdisciplinary knowledge to expand and deepen one's competence, as well as inspire others to do the same.   |
|                                       | <b>Evaluation: critical approach</b>   | <b>P8S_KK</b> | 1. critically evaluate the achievements of one's scientific or artistic discipline;   |
| <b>Social competence: is ready to</b> | <b>Evaluation: critical approach</b>   | <b>P8S_KK</b> | 2. critically evaluate one's contributions to the development of the given scientific or artistic discipline;   |
|                                       |  |               | 3. recognize the value of knowledge in solving cognitive and practical problems;  |
|                                       | <b>Responsibility: fulfilling social obligations and acting in the public interest</b> | <b>P8S_KO</b> | 1. fulfil the social obligations of researchers and artists;  |
|                                       |  |               | 2. initiate activities on behalf of the public interest;  |
|                                       |  |               | 3. think and act in an enterprising manner;   |
|                                       | <b>Professional role: autonomy and development of an ethos</b>                         | <b>P8S_KR</b> | 1. uphold and develop the ethos of the research and artistic communities, including:<br>- conducting research in an independent manner<br>- respecting the principle of the public ownership of academic research results, taking into account intellectual property rights |

The description of the expected learning outcomes takes into account the universal first-degree characteristics for level 8, as defined in the Act of December 22, 2015, on the Integrated Qualifications System (consolidated text: Journal of Laws of 2024, item 1606, as amended), as well as the second-degree characteristics specified in the Regulation of the Minister of Science and Higher Education of November 28, 2018, on the second-degree characteristics of learning outcomes for qualifications at levels 6–8 of the Polish Qualifications Framework.

**7. FRAMEWORK EDUCATION PROGRAM AT THE DOCTORAL SCHOOL CONDUCTED BY THE UNIVERSITY OF RZESZÓW  
FOR DOCTORAL STUDENTS COMMENCING THEIR EDUCATION IN 2026 AND CONTINUING THROUGH 2030**

| No                              | COURSE   |  | TOTAL<br>NUMBER OF<br>HOURS<br>ECTS CREDITS |                 | ASSESSMENT<br>METHOD<br>(e.g.,<br>ZO1,<br>E2) | NUMBER OF HOURS |               |                |               |                 |               |                |               |               |               |                |               |                 |               |                  |               | PQF  |
|---------------------------------|--|--|---|-----------------|---|-----------------|---------------|----------------|---------------|-----------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|-----------------|---------------|------------------|---------------|--|
|                                 |  |  |   |                 |   | Year I          |               |                |               | Year II         |               |                |               | Year III      |               |                |               | Year IV         |               |                  |               | LEARNING<br>OUTCOMES   |
|                                 |  |  |   |                 |   | Semester<br>I   |               | Semester<br>II |               | Semester<br>III |               | Semester<br>IV |               | Semester<br>V |               | Semester<br>VI |               | Semester<br>VII |               | Semester<br>VIII |               |  |
|                                 | Course title                                     |  | Type  | Number of hours |   | ECTS credits    | godz.<br>ECTS |                | godz.<br>ECTS |                 | godz.<br>ECTS |                | godz.<br>ECTS |               | godz.<br>ECTS |                | godz.<br>ECTS |                 | godz.<br>ECTS |                  | godz.<br>ECTS |  |
| INTERDISCIPLINARY COURSE MODULE |  |  |   |                 |   |                 |               |                |               |                 |               |                |               |               |               |                |               |                 |               |                  |               |  |
| 1.                              | Ethos of a Scientist: Best Practices in Research |  | seminar                                     | 15              | 1   | Z 1             | 15            | 1              | -             | -               | -             | -              | -             | -             | -             | -              | -             | -               | -             | -                | -             | P8S_WK2<br>P8S_UW3<br>P8S_UU1<br>P8S_UU2<br>P8S_KK1<br>P8S_KK2<br>P8S_KO1<br>P8S_KR1 |



|    |   |                 |    |   |      |   |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|---|-----------------|----|---|------|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2. | Copyright Law   | lecture         | 4  | 1 | ZO 2 | - | - | 4  | 1 | - | - | - | - | - | - | - | - | - | - | - | - | P8S_WK2<br>P8S_UW4<br>P8S_KR1   |
| 3. | Commercialization of Scientific Research                                  | seminar         | 6  | 1 | ZO 2 | - | - | 6  | 1 | - | - | - | - | - | - | - | - | - | - | - | - | P8S_WK3<br>P8S_UW4<br>P8S_KO1<br>P8S_KO2<br>P8S_KO3<br>P8S_KK3            |
| 4. | Fundraising for Research and Research Project Management                  | seminar         | 20 | 2 | ZO 2 | - | - | 20 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | P8S_UW1<br>P8S_UO1<br>P8S_UO2<br>P8S_KK3                                  |
| 5. | Application of Artificial Intelligence in Scientific or Artistic Research | seminar         | 10 | 1 | ZO2  | - | - | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | P8S_WG1<br>P8S_WK1<br>P8S_UW1<br>P8S_UW2<br>P8S_UK6<br>P8S_KK2<br>P8S_KR1 |
| 6. | Writing Scientific Texts  | Practical class | 6  | 1 | ZO 3 | - | - | -  | - | 6 | 1 | - | - | - | - | - | - | - | - | - | - | P8S_WG2<br>P8S_UK2<br>P8S_UK6<br>P8S_KK1                                  |
| 7. | Sources of Information and Information Management                         | seminar         | 4  | 1 | ZO 3 | - | - | -  | - | 4 | 1 | - | - | - | - | - | - | - | - | - | - | P8S_WG3<br>P8S_WG4<br>P8S_UW2<br>P8S_UW3<br>P8S_UK6<br>P8S_KK3            |

|   |   |               |     |    |        |    |   |    |   |    |   |    |   |    |   |    |   |    |   |   |   |   |
|---|---|---------------|-----|----|--------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|---|---|---|
| 8.  | Rhetoric with Elements of Personal Branding                 | seminar       | 15  | 1  | ZO3    | -  | - | -  | - | 15 | 1 | -  | - | -  | - | -  | - | -  | - | - | - | P8S_WG1<br>P8S_WK1<br>P8S_WK2<br>P8S_UW4<br>P8S_UK6<br>P8S_KK2<br>P8S_KO2                       |
| 9.  | Interdisciplinary Elective Course<br>(chosen from the list) | seminar /lab. | 30  | 2  | E5, E7 | -  | - | -  | - | -  | - | -  | - | 15 | 1 | -  | - | 15 | 1 | - | - | P8S_WG1<br>P8S_WG2<br>P8S_WG3<br>P8S_WK1<br>P8S_UW1<br>P8S_UW2<br>P8S_UW3<br>P8S_UK6<br>P8S_KK1 |
| 10.   | Managing the Image of a Scientist                           | seminar       | 15  | 1  | ZO6    | -  | - | -  | - | -  | - | -  | - | -  | - | 15 | 1 | -  | - | - | - | P8S_WK1<br>P8S_WK2<br>P8S_UW4<br>P8S_UK6<br>P8S_KO1<br>P8S_KO2<br>P8S_KO3                       |
| 11.   | OSH<br>(Occupational Safety and Health)                     | e-learning    | 4   | -  | Z1     | 4  | - | -  | - | -  | - | -  | - | -  | - | -  | - | -  | - | - | - | P8S_WG3   |
| Total number of hours for the interdisciplinary course module |   |               | 129 | 12 |        | 19 | 1 | 40 | 5 | 25 | 3 | -  | - | 15 | 1 | 15 | 1 | 15 | 1 | - | - |   |
| <b>MONODISCIPLINARY COURSE MODULE</b>                         |   |               |     |    |        |    |   |    |   |    |   |    |   |    |   |    |   |    |   |   |   |   |
| 12.   | Doctoral Seminar /Journal Club<br>(chosen from the list)    | seminar       | 105 | 14 | Z1-7   | 15 | 2 | 15 | 2 | 15 | 2 | 15 | 2 | 15 | 2 | 15 | 2 | 15 | 2 | - | - | P8S_WG1<br>P8S_WG2<br>P8S_WG3<br>P8S_UW1<br>P8S_UW2<br>P8S_UW3<br>P8S_UK6<br>P8S_KK1<br>P8S_KK3 |

|     |   |               |     |    |            |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |   |
|-----|---|---------------|-----|----|------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|---|
| 13. | Doctoral Laboratory   | lab./ seminar | 180 | 18 | Z3-8       | -  | - | -  | - | 30 | 3 | 30 | 3 | 30 | 3 | 30 | 3 | 30 | 3 | 30 | 3 | P8S_WG1<br>P8S_WG2<br>P8S_WG3<br>P8S_WG4<br>P8S_UW1<br>P8S_UW2<br>P8S_UW3<br>P8S_KK1            |
| 14. | Research Methodology  | seminar       | 60  | 6  | ZO1, E2    | 30 | 3 | 30 | 3 | -  | - | -  | - | -  | - | -  | - | -  | - | -  | - | P8S_WG3<br>P8S_WG4<br>P8S_WK3<br>P8S_UW1<br>P8S_UK1<br>P8S_UO1<br>P8S_KR1                       |
| 15. | (Selected) Specialized Elective Course                                | seminar /lab. | 45  | 6  | E2, E4, E6 | -  | - | 15 | 2 | -  | - | 15 | 2 | -  | - | 15 | 2 | -  | - | -  | - | P8S_WG1<br>P8S_WG2<br>P8S_WG3<br>P8S_WK1<br>P8S_UW1<br>P8S_UW2<br>P8S_UW3<br>P8S_UK6<br>P8S_KK3 |
| 16. | Public Speaking and Scientific Conferences / Exhibition / Performance | lecture       | 30  | 2  | Z4, Z6     | -  | - | -  | - | -  | - | 15 | 1 | -  | - | 15 | 1 | -  | - | -  | - | P8S_WG1<br>P8S_WG2<br>P8S_UK1<br>P8S_UK2<br>P8S_UK3<br>P8S_UK4<br>P8S_UK5<br>P8S_UK6<br>P8S_KR1 |

|   |   |                 |     |    |                                       |     |    |     |    |     |    |     |    |    |   |     |    |    |   |    |   |  |
|---|---|-----------------|-----|----|---------------------------------------|-----|----|-----|----|-----|----|-----|----|----|---|-----|----|----|---|----|---|--|
| 17.   | Workshops with an Expert                            | seminar         | 15  | 3  | Z4,<br>Z6,<br>Z7                      | -   | -  | -   | -  | -   | -  | 5   | 1  | -  | - | 5   | 1  | 5  | 1 | -  | - | P8S_WG2<br>P8S_UW1<br>P8S_WK1<br>P8S_UU1<br>P8S_UU2<br>P8S_UU3<br>P8S_UK6<br>P8S_KK1<br>P8S_KK2<br>P8S_KK3 |
| Total number of hours for the monodisciplinary course module    |   |                 | 435 | 49 | -                                     | 45  | 5  | 60  | 7  | 45  | 5  | 80  | 9  | 45 | 5 | 80  | 9  | 50 | 6 | 30 | 3 |  |
| <b>HIGHER EDUCATION DIDACTICS MODULE</b>                        |   |                 |     |    |                                       |     |    |     |    |     |    |     |    |    |   |     |    |    |   |    |   |  |
| 18.   | Higher Education Didactics                          | seminar         | 15  | 2  | ZO1                                   | 15  | 2  | -   | -  | -   | -  | -   | -  | -  | - | -   | -  | -  | - | -  | - | P8S_WG4<br>P8S_UU1<br>P8S_UU2<br>P8S_UU3<br>P8S_KK3  |
| 19.   | Voice Emission                                      | Practical class | 15  | 1  | Z1                                    | 15  | 1  | -   | -  | -   | -  | -   | -  | -  | - | -   | -  | -  | - | -  | - | P8S_UK1<br>P8S_UK4<br>P8S_KO1  |
| 20.   | Specialized Modern Language / Polish for Foreigners | Practical class | 60  | 8  | ZO 1-3,<br>E4                         | 15  | 2  | 15  | 2  | 15  | 2  | 15  | 2  | -  | - | -   | -  | -  | - | -  | - | P8S_WG3<br>P8S_UK1<br>P8S_UK5<br>P8S_KK3   |
| 21.   | Professional Practice                               | practice        | 90  | 12 | Z2,<br>Z3,<br>Z4,<br>Z5,<br>Z6,<br>Z7 | -   | -  | 15  | 2  | 15  | 2  | 15  | 2  | 15 | 2 | 15  | 2  | 15 | 2 | -  | - | P8S_WG4<br>P8S_UU1<br>P8S_UU2<br>P8S_UU3<br>P8S_KK3  |
| Total number of hours for the higher education didactics module |   |                 | 180 | 23 |                                       | 45  | 5  | 30  | 4  | 30  | 4  | 30  | 4  | 15 | 2 | 15  | 2  | 15 | 2 | -  | - |  |
| Total number of hours for the education cycle:                  |   |                 | 744 | 84 | -                                     | 109 | 11 | 130 | 16 | 100 | 12 | 110 | 13 | 75 | 8 | 110 | 12 | 80 | 9 | 30 | 3 |  |

### Description of the implementation of the education program:

The program includes a total of 744 hours of academic classes and is assigned a total of 84 ECTS credits, including professional practice (total number of practice hours: 90, assigned ECTS credits: 12). The doctoral student is required to complete the following: the interdisciplinary course module (129 hours, 12 ECTS credits), the monodisciplinary course module (435 hours, 49 ECTS credits), and the higher education didactics module (180 hours, 23 ECTS credits, including professional practice).

- **INTERDISCIPLINARY COURSE MODULE consists of the following courses:**

***Ethos of a Scientist: Best Practices in Research*** - conducted in semester 1, concludes with a non-graded pass Z1,

***Copyright Law*** – conducted in semester 2, concludes with a graded pass ZO2,

***Commercialization of Scientific Research*** - conducted in semester 2, concludes with a graded pass ZO2,

***Fundraising for Research and Research Project Management*** - conducted in semester 2, concludes with a graded pass ZO2,

***Application of Artificial Intelligence in Scientific or Artistic Research*** - conducted in semester 2, concludes with a graded pass ZO2,

***Writing Scientific Texts*** - conducted in semester 3, concludes with a graded pass ZO3,

***Sources of Information and Information Management*** - conducted in semester 3, concludes with a graded pass ZO3,

***Rhetoric with Elements of Personal Branding*** – conducted in semester 3, concludes with a graded pass ZO3,

***Interdisciplinary Elective Course (chosen from the list)***– conducted in semesters 5 and 7, concludes with an exam after each semester of instruction E5, E7. A list of at least one course per academic year is proposed by the Deans of the Faculties of the University of Rzeszów. The course aims to expand the interdisciplinary knowledge, skills, and social competence of the doctoral student in relation to the subject of their doctoral research.

***Managing the Image of a Scientist*** – conducted in semester 6, concludes with a graded pass ZO6

Interdisciplinary courses may be conducted in study groups.

The doctoral student is required to complete occupational health and safety training in accordance with the regulations of the University. The training takes place in semester 1 and concludes with a pass/fail assessment.

- **MONODISCIPLINARY COURSE MODULE consists of the following courses:**

***Doctoral Seminar / Journal Club*** is conducted in semesters from 1 to 7 and concludes with a non-graded pass/fail assessment after each semester (Z1-Z7). The course in semesters 1 through 4 must be conducted in direct contact between the doctoral student and their supervisor. During this part of the course, the doctoral student, with the active support of the supervisor, systematizes current knowledge related to their doctoral research topic and deepens their own knowledge, skills, and social competence. From semester 5 onwards, it is possible to conduct the course **Doctoral Seminar in the Journal Club Format** with

the participation of a foreign specialist in the discipline in which the doctoral dissertation is being prepared. The candidate for the specialist is proposed by the Dean of the Faculty of the University of Rzeszów after receiving a positive opinion from the relevant scientific council for the discipline, based on the relevance of the specialist's academic achievements to the dissertation topic. The Doctoral Seminar in the Journal Club Format fosters the internationalization of the education program to ensure the highest standards of academic supervision and support for doctoral students in their professional development.

**Doctoral Laboratory** is conducted from semesters 3 to 8 and concludes with a non-graded pass/fail assessment after each semester (Z3-Z8). The course is conducted in direct contact between the doctoral student and their supervisor or assistant supervisor. The course format is either laboratory-based or seminar-based. The content of the course focuses on a specialized methodology related to the doctoral student's research work. (It may be conducted within the units of the University of Rzeszów or outside the university if required by the nature of the research).

**Research Methodology** is conducted in semesters 1 and 2. After semester 1, the course concludes with a graded pass/fail assessment (ZO1), and after semester 2, it ends with an exam (E2). The course is conducted in direct contact between the doctoral student and their supervisor or assistant supervisor.

**(Selected) Specialized Elective Course** is conducted in semesters 2, 4, and 6. After each semester, the course concludes with an exam (E2, E4, E6). The purpose of the course is to expand the specialized knowledge, skills, and social competence of the doctoral student in relation to their doctoral dissertation. A list of at least two courses per academic year is proposed by the Deans of the Faculties of the University of Rzeszów. The course may be conducted with the support of foreign academic staff. The candidate for the specialist is proposed by the Dean of the Faculty of the University of Rzeszów, following a positive opinion from the relevant scientific council for the discipline. The selection of the specialist is based on the relevance of their academic achievements to the subject of the planned course. The course promotes the internationalization of the education program to ensure the highest standards of academic supervision and support for doctoral students in their professional development. The course offered jointly to doctoral students from different study cycles within the same scientific/artistic discipline.

**Public Speaking and Scientific Conferences / Exhibition / Performance** is conducted in semesters 4 and 6 and concludes with a non-graded pass/fail assessment after each semester (Z4, Z6). The course is undertaken individually under the supervision of the doctoral student's supervisor and focuses on discussing the principles of preparing multimedia presentations, conference posters, exhibitions, or performances. During the course, the doctoral student prepares a public speech using a foreign modern language. During their education at the Doctoral School, the doctoral student is required to actively participate in at least two scientific conferences or artistic/musical events, one of which must be international, where the event language is different from Polish. The doctoral student may participate in a scientific conference or artistic/musical event in person or via remote communication tools. The supervisor is responsible for verifying the learning outcomes. Participation in the scientific conference or artistic/musical event must be confirmed by the end of semesters 4 and 6. The course promotes the internationalization of the education program to ensure the highest standards of academic supervision and support for doctoral students in their professional development.

**Workshops with an Expert** are conducted in semesters 4, 6, and 7, and conclude with a non-graded pass/fail assessment after each semester (Z4, Z6, Z7). The purpose of the course is to enable the doctoral student, as a young researcher in Poland, to establish contacts and collaborate with experienced researchers with an established academic reputation from Poland or abroad. The expert should be a scholar employed outside the University of Rzeszów, holding at least a doctoral degree, and possessing an outstanding academic or artistic achievements in their discipline. The choice of the expert for a given semester is the responsibility of the doctoral student, with active involvement from the supervisor. The choice of the expert is reviewed by the relevant scientific council for the discipline, based on the relevance of the expert's academic achievements to the subject matter of the course. In the absence of the appointment of an

expert, the supervisor or the relevant scientific council for the discipline proposes a candidate with the appropriate qualifications to conduct the course. The course promotes the internationalization of the education program to ensure the highest standards of academic supervision and support for doctoral students in their professional development.

- **HIGHER EDUCATION DIDACTICS MODULE** consists of the following courses:

**Higher Education Didactics** is conducted in semester 1 and concludes with a graded pass/fail assessment ZO1. The course aims to prepare the doctoral student for the role of an academic teacher and for conducting courses with students. It introduces the theoretical and practical aspects of higher education didactics, providing knowledge and skills in academic pedagogy, including adult education. The key objective of the course is to equip the doctoral student with the ability to design and conduct courses in higher education, utilizing modern technological tools.

**Voice Emission** is conducted in semester 1 and concludes with a non-graded pass/fail assessment Z1. The course aims to prepare the doctoral student to use their speech apparatus in accordance with the principles of vocal pedagogy, thereby helping them assume the role of an academic teacher and preparing them for public speaking in various professional and social roles

**Specialized Modern Language / Polish for Foreigners** is conducted in semesters 1 through 4. Semesters 1 through 4 conclude with a graded pass/fail assessment ZO1 – ZO4, and semester 4 ends with an exam E4. For doctoral students who are citizens of Poland, **Specialized Modern Language** is an elective course, taught at a level of at least B2 on the CEFR scale. The course may be conducted in language groups. **Polish for Foreigners** is conducted in semesters 1 through 4. Semesters 1 through 4 conclude with a graded pass/fail assessment ZO1 – ZO4, and semester 4 ends with an exam (E4). This is a mandatory course for doctoral students who are foreign nationals and do not speak Polish.

**Professional Practice** is conducted in semesters 2 through 7, and concludes with a non-graded pass/fail assessment Z2 – Z7 after each semester. The placement consists of doctoral students' independent teaching practice. The total annual duration of the **professional practice** may not exceed 60 hours, and the number of placement hours per semester may not be less than 15 hours, excluding semester 1 and semester 8. The doctoral student, after obtaining approval from the Head of the Doctoral School, may increase the number of placement hours in a given academic year to a maximum of 60 hours. During the professional placement, the doctoral student maintains a placement journal, which is approved by the course coordinator or the supervisor.

#### **The method of assessing the implementation of the education program and scientific/artistic work:**

1. The supervisor monitors the implementation of the doctoral student's education program and individual research plan. The doctoral student submits an annual report along with a periodic assessment sheet prepared by the supervisor, which includes, in particular, a brief summary of scientific or artistic activities (scientific or artistic progress and progress in the doctoral dissertation) and teaching activities.
2. The Head of the Doctoral School verifies the implementation of the education program:

- The Head of the Doctoral School evaluates the implementation of the education program and the research plan based on: the periodic assessment sheet prepared by the supervisor, the completion of courses specified in the education program, and the individual reports of the doctoral student.
  - The Head of the Doctoral School, upon the written request of the doctoral student, may reschedule certain obligations related to the implementation of the education program. The Head may also, upon the written request of the doctoral student, supported by the supervisor, decide to include courses not covered by the education program (with the appropriate allocation of ECTS points) in the fulfillment of the program requirements.
3. The mid-term evaluation of the doctoral student is conducted at the midpoint of the education period specified in this program, and in the case of a program lasting 6 semesters, it will be conducted during the fourth semester. The procedure for the mid-term evaluation is defined by a separate regulation.
4. The following grading scheme is applied:

|                   |        |     |               |
|-------------------|--------|-----|---------------|
| Excellent         | bdb    | 5.0 | A (ECTS)      |
| Good Plus         | + db   | 4,5 | B (ECTS)      |
| Good              | db     | 4.0 | C (ECTS)      |
| Satisfactory Plus | + dost | 3.5 | D (ECTS)      |
| Satisfactory      | dost   | 3.0 | E (ECTS)      |
| Unsatisfactory    | ndst   | 2.0 | F, FX ( ECTS) |
| Pass              | zal    | -   | -             |
| Fail              | nzal   | -   | -             |

Obtaining a grade of **unsatisfactory** or a **fail** mark is equivalent to not passing the course.

5. Courses in the Doctoral School are taught by persons who possess the necessary competence and experience confirmed by their scientific or artistic achievements. With the exception of **Specialized Modern Language** and **Polish for Foreigners**, courses are conducted by academic teachers holding at least a doctoral degree. The Head of the Doctoral School may assign the teaching of courses to an expert without the aforementioned degree or title, provided that they can confirm their qualifications through certificates, diplomas, or other documents verifying their expertise in the subject area.
6. The implementation of courses in a remote format using distance learning methods and techniques in synchronous mode is allowed, with a total duration not exceeding 40% of the total number of ECTS credits specified in the education program.



Chairman of the Senate  
of the University of Rzeszów

prof. dr hab. Adam Reich  
Rector

**SYLABUS PRZEDMIOTU – SZKOŁA DOKTORSKA**  
**CYKL KSZTAŁCENIA OD ..... DO .....**

[illegible]

|   |               |           |      |   |      |                     |
|---|---------------|-----------|------|---|------|---------------------|
|   |               |           |      |   |      |                     |
| Kompetencje społeczne:<br>Lp.   | jest gotów do |           |      |   |      |                     |
|   |               |           |      |   |      |                     |
|   |               |           |      |   |      |                     |
|   |               |           |      |   |      |                     |
| FORMY ZAJĘĆ DYDAKTYCZNYCH, WYMIAR GODZIN I PUNKTÓW  |               |           |      |   |      |                     |
| Semestr (nr)  | Wykł.         | Ćw./Konw. | Lab. | Prakt.  | Inne | Liczba pkt.<br>ECTS |
|   |               |           |      |   |      |                     |
| METODY DYDAKTYCZNE  |               |           |      |   |      |                     |
| Np. wykład - wykład z prezentacją multimedialną przy użyciu komputera i rzutnika, ćwiczenia laboratoryjne - praca w grupach w laboratorium przy użyciu sprzętu laboratoryjnego, wykonywanie i planowanie doświadczeń itp. |               |           |      |   |      |                     |
| TREŚCI PROGRAMOWE   |               |           |      |   |      |                     |
| <div>1. Wykład / Konwersatorium:</div> <div>2. Ćwiczenia / laboratoria / inne:</div>  |               |           |      |   |      |                     |
| WARUNKI ZALICZENIA PRZEDMIOTU (KRYTERIA OCENIANIA)  |               |           |      |   |      |                     |
| CAŁKOWITY NAKŁAD PRACY DOKTORANTA POTRZEBNY DO OSIĄGNIĘCIA ZAŁOŻONYCH EFEKTÓW W GODZINACH ORAZ PUNKTACH ECTS  |               |           |      |   |      |                     |
| Forma aktywności  |               |           |      | Średnia liczba godzin na zrealizowanie aktywności |      |                     |
| Godziny realizowane w kontakcie bezpośrednim wynikające planu z studiów   |               |           |      |   |      |                     |
| Inne z udziałem nauczyciela<br>(udział w konsultacjach, egzaminie)  |               |           |      |   |      |                     |

|  |  |  |
|--|--|--|
| Godziny realizowane samodzielnie przez doktoranta<br>(przygotowanie do zajęć, egzaminu, napisanie referatu itp.) |  |  |
| <b>SUMA GODZIN</b>   |  |  |
| <b>SUMARYCZNA LICZBA PUNKTÓW ECTS</b>  |  |  |
| <b>LITERATURA</b>  |  |  |
| Literatura podstawowa:   |  |  |
| Literatura uzupełniająca:  |  |  |

.....  
Data i podpis prowadzącego przedmiotu

.....  
Akceptacja Kierownika Jednostki lub osoby upoważnionej

## A COURSE SYLLABUS – DOCTORAL SCHOOL

### REGARDING THE QUALIFICATION CYCLE FROM..... TO .....

| GENERAL INFORMATION ABOUT COURSE                                     |  |   |   |   |
|--|--|---|---|---|
| Course title   |  |   |   |   |
| Name of the unit running the course                                  | Rzeszów University Doctoral School                             |   |   |   |
| Type of course ( <i>obligatory, optional</i> )                       |  |   |   |   |
| Year and semester of studies   |  |   |   |   |
| Discipline   |  |   |   |   |
| Language of Course   |  |   |   |   |
| Name of Course coordinator   |  |   |   |   |
| Name of Course instructor  |  |   |   |   |
| Prerequisites  |  |   |   |   |
| BRIEF DESCRIPTION OF COURSE<br>(100-200 words)                       |  |   |   |   |
|  |  |   |   |   |
| COURSE LEARNING OUTCOMES AND METHODS OF EVALUATING LEARNING OUTCOMES |  |   |   |   |
| Learning outcome   | The description of the learning outcome defined for the course | Reference to learning outcomes for qualifications at Level 8 of the Polish Qualification Framework (PRK) (symbol) | Learning Format (Lectures, classes,...) | Method of assessment of learning outcomes (e.g. test, oral exam, written exam, project,...) |
| <b>Knowledge:<br/>(no.)</b>  | <i>knows and understands</i>                                   |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
| <b>Skills:<br/>(no.)</b>   | <i>is able to</i>  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |
|  |  |   |   |   |

[illegible]

|   |  |  |
|---|--|--|
| Scheduled course contact hours  |  |  |
| Other contact hours involving the instructor (duty hours, examinations)                         |  |  |
| Non-contact hours – student’s own work (preparation for classes or examinations, project, etc.) |  |  |
| <b>Total number of hours</b>  |  |  |
| <b>Total number of ECTS credits</b>   |  |  |
| <b>INSTRUCTIONAL MATERIALS</b>  |  |  |
| Compulsory literature:  |  |  |
| Complementary literature:   |  |  |

.....  
Date and signature of the Course instructor

.....  
Approved by the Head of the Department or an authorised person