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| **Module of individual research plan**  Description of learning outcomes - the characteristic of I and II stage  for qualifications at Level 8 of the Polish Qualifications Framework | |
| **SYMBOL**  **EUS** | **LEARNING OUTCOMES** |
| **KNOWLEDGE** | |
| P8U\_W1 | knows and understands the world's achievements in science and the arts and the resulting implications of this for practice |
| P8S\_WG1 | knows and understands at the level enabling the revision of existing paradigms - the world's achievements relating to: theoretical foundations, general and selected specific issues - proper for the scientific disciplines represented in the Doctoral School |
| P8S\_WG2 | knows and understands the main scientific developments in the scientific disciplines in which education takes place |
| P8S\_WG4 | knows and understands the principles of disseminating results of research activity, also in the open access mode |
| P8S\_WK3 | knows and understands the basic principles of transfer of knowledge to the economic and social sphere and commercialization of results of scientific activity and know-how related to these results |
| **SKILLS** | |
| P8U\_U1 | is able to analyze and creatively synthesize scientific and creative achievements to identify and solve research problems as well as those related to innovative and creative activities; contribute new elements to these achievements |
| P8U\_U2 | is able to independently plan one's own development as well as inspire the development of others |
| P8U\_U3 | is able to participate in the exchange of experiences and ideas, also in the international activity |
| P8S\_UW1 | is able to use knowledge from different scientific fields to creatively identify, formulate and innovatively solve complex problems or perform research activities, especially: to define the aim and subject of the research, formulate a research hypothesis, develop research methods, techniques and tools and use them creatively, draw conclusions on the basis of research results |
| P8S\_UW2 | is able to critically analyze and evaluate the results of scientific research, expert activities and other works of creative character and their contribution to the development of knowledge |
| P8S\_UW3 | is able to transfer the results of research work to the economic and social sphere |
| P8S\_UK1 | is able to communicate on specialist topics to the extent that enables active participation in international scientific community |
| P8S\_UK2 | is able to disseminate the results of research activity, also to the general public |
| P8S\_UK3 | is able to initiate debates and participate in scientific discourse |
| P8S\_UK4 | is able to use a foreign language at the B2 level according to the Common European Framework of Reference for Languages at the level that enables participation in international scientific and professional community |
| P8S\_UO | is able to plan and implement one's own and a team's research or creative work, also in the international community |
| P8S\_UU1 | is able to independently plan and act for one's own development as well as to inspire and organize the development of other people |
| **SOCIAL COMPETENCE** | |
| P8U\_K1 | is ready to conduct independent research expanding the existing scientific and creative achievements |
| P8U\_K2 | is ready to assume challenges in professional and public sphere, taking into consideration their ethical dimension and responsibility for their results and develop models of good practice in such situations |
| P8S\_KK | is ready to critically evaluate the achievements of one's scientific discipline, critically evaluate one's contributions to the development of that field, recognize the value of knowledge in solving cognitive and practical problems |
| P8S\_KO | is ready to fulfill the social obligations of a researcher, initiate activities on behalf of the public interest, think and act in an enterprising manner |
| P8S\_KR | is ready to uphold and develop the ethos of research and artistic communities, including conducting research in an independent manner, respecting the principle of the public ownership of the results of scientific activity, taking into account intellectual property rights |