Appendix 8

Characteristics of the second level of study effects for qualifications at level 8 of the Polish Qualifications Framework

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| Study effects characteristics category  | Descriptive category - aspects of fundamental importance | Candidate | Study effects were achieved through:(supervisor’s justification): |
| **Knowledge** |  | **The candidate knows and understands:** |  |
| Scope and depth - completeness of cognitive perspective and relationships | - to the extent of revising existing paradigms - world achievements, including theoretical foundations, as well as general issues and selected specific issues - relevant to a particular scientific or artistic discipline;- the main development trends of the scientific or artistic disciplines in which the training takes place;- research methodologies;- principles of dissemination of the results of scientific activity, including in open access mode |  |
| Context - determinants, effects | - the fundamental dilemmas of modern civilization;- economic, legal, ethical and other relevant conditions of scientific activity;- basic principles of knowledge transfer to the economic and social sphere and the commercialisation of the results of scientific activity and the know-how associated with these results |  |
| **Skills** |  | **The candidate is capable of:** | study effects were achieved through:(supervisor’s justification): |
| Use of knowledge - solved problems and performed task | - using the knowledge from various fields of science or the arts to creatively identify, formulating and innovatively solving complex problems or performing tasks of a research nature, in particular:- defining the purpose and object of scientific research, formulate a research hypothesis,- developing research methods, techniques and tools and creatively apply them,- inferring from the results of scientific research;- making a critical analysis and evaluation of the results of scientific research, expert activities and other works of a creative nature and their contribution to the development of knowledge;- transferring the result of scientific activity to the economic and social sphere |  |
| Communicating - receiving and creating speech, disseminating knowledge in the scientific community and using a foreign language | - communicating on specialized topics to a degree that enables active participation in the international scientific community;- disseminating the results of scientific activities, including in popular forms- initiating a debate- participating in scientific discourse- speaking a foreign language at the B2 level of the Common European Framework of Reference for Languages to a degree that allows participation in an international scientific and professional environment |  |
| Work organisation - planning and teamwork | - planning and implementing individual and team research or creative projects, including in an international environment |  |
| Learning - planning your own development and the development of others | - independently planning and acting for their own development and inspiring and organising the development of others;- planning classes or groups of classes and implementing them using modern methods and tools |  |
| **Social competencies** |  | **The candidate is ready to:** | study effects were achieved through:(supervisor’s justification): |
| Evaluations - a critical approach | - critically assess the achievements within a given scientific or artistic discipline;- critically evaluate one's own contribution to the development of a scientific or artistic discipline;- recognise the importance of knowledge in solving cognitive and practical problems |  |
| Responsibility - fulfilling social obligations and acting in the public interest | - fulfill the social obligations of researchers and creators;- initiate actions for the public interest;- think and act in an entrepreneurial manner |  |
| Professional role-independence ethos development | - sustain and develop the ethos of the 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 protection of intellectual property |  |

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 Supervisor's signature