Attachment No. 10 to Program Regulations
PROM PW 2024

**Achievable learning outcomes**

Within the types of activities planned by PhD students, the following learning outcomes can be achieved depending on the type of activities:

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| **Activity type** | **Symbol of the outcome** | **Outcome description** |
| - active participation in a foreign conference;- participation in a summer/winter school | **In terms of knowledge –** *the participant knows and understand***s**: |
| SD\_W2 | global achievements covering theoretical foundations and general issues, as well as selected detailed issues – appropriate to the represented scientific discipline, including the latest scientific achievements in the field of conducted research – to the extent allowing for the revision of the existing paradigms |
| SD\_W4 | economic, legal, ethical, and other significant determinants of scientific activity, including research funding mechanisms |
| SD\_W5 | basic principles of knowledge transfer to the economic and social field, as well as commercialization of the results of scientific activity and know-how related to these results, including protection of intellectual property issues, also in open access |
| **In terms of skils –** *the participant can****:*** |
| SD\_U4 | communicate within specialized topics, appropriate for the represented scientific discipline to the extent allowing for active participation in national and international scientific environment, including within international scientific university consortiums |
| SD\_U5 | initiate the debate and participate in scientific discourse, present appropriate arguments in scientific discussion and public debates on various topics |
| SD\_U6 | communicate in English at B2+ level of the Common European Framework of Reference for Languages to the extent allowing for participation in international scientific and professional environment |
| **In terms of social competences -** *participant is ready to****:*** |
| SD\_K1 | critically assess the achievements within the represented scientific discipline and own contribution to the development of this discipline |
| - stay at the host institution in order to obtain materials for a doctoral dissertation or a related scientific article; - taking measurements using unique equipment, including the use of large research infrastructure unavailable in Poland | **In terms of knowledge *–*** *the participant knows and understands:*  |
| SD\_W3 | the main development trends of the represented scientific discipline with the related research methodology |
| SD\_W4 | economic, legal, ethical, and other significant determinants of scientific activity, including research funding mechanisms |
| **In terms of skils –** *the participant can****:*** |
| SD\_U1 | utilize knowledge from various scientific fields to creatively identify, formulate, and innovatively solve complex problems or perform research tasks |
| SD\_U2 | perform critical analysis and evaluation of the results of research, expert works, and other creative activities, as well as their contribution to the development of knowledge, in particular - evaluate usefulness and the ways to use the results of theoretical works in practice |
| SD\_U6 | communicate in English at B2+ level of the Common European Framework of Reference for Languages to the extent allowing for participation in international scientific and professional environment |
| SD\_U7 | plan and implement – in a methodologically correct way – individual and group research or artistic undertakings, also in an international environment |
| **In terms of social competences -** *participant is ready to****:*** |
| SD\_K2 | acknowledge the essentiality of knowledge and academic achievements in solving cognitive and practical problems |
| SD\_K4 | think and act in a creative and entrepreneurial way |
| - participation in short forms of education, i.e. courses, workshops, accompanying internships or industrial internships | **In terms of knowledge *–*** *the participant knows and understands:* |
| SD\_W2 | global achievements covering theoretical foundations and general issues, as well as selected detailed issues – appropriate to the represented scientific discipline, including the latest scientific achievements in the field of conducted research – to the extent allowing for the revision of the existing paradigms |
| **In terms of skils –** *the participant can****:*** |
| SD\_U4 | communicate within specialized topics, appropriate for the represented scientific discipline to the extent allowing for active participation in national and international scientific environment, including within international scientific university consortiums |
| SD\_U6 | communicate in English at B2+ level of the Common European Framework of Reference for Languages to the extent allowing for participation in international scientific and professional environment |
| SD\_U8 | independently plan and act for own development, as well as inspire and organize the developments of others, including through planning and participating in research projects |
| **In terms of social competences -** *participant is ready to****:*** |
| SD\_K2 | acknowledge the essentiality of knowledge and academic achievements in solving cognitive and practical problems |
| SD\_K4 | think and act in a creative and entrepreneurial way |