

1. Field of study	Environmental Hazard Engineering
2. Faculty	Faculty of Natural Sciences
3. Academic year of entry	2019/2020 (winter term), 2020/2021 (winter term), 2021/2022 (winter term), 2022/2023 (winter term)
4. Level of qualifications/degree	first-cycle studies (in engineering)
5. Degree profile	general academic
6. Mode of study	full-time

Code of the learning outcome of the programme	Learning outcomes The graduate:	Codes of the second-order PRK characteristics to which the learning outcome of the programme is related
KNOWLEDGE		
KIZ1_W01	has an advanced knowledge related to geothreat-linked science, is familiar with the terminology used in these sciences, and understands the complex conditions of geothreat phenomena	2018_P6S_WG
KIZ1_W02	is familiar with the research techniques and tools used in geothreat-linked sciences, including statistical and IT tools for describing and interpreting geothreat-linked phenomena	2018_P6S_WG
KIZ1_W03	is familiarised with the applications of the achievements of geothreat-linked sciences in socio-economic life, taking into account the sustainable development	2018_P6S_WK
KIZ1_W04	has the required knowledge to understand social, economic, legal and other non-technical conditions of environmental engineering focused on geothreat, including understanding concepts of industrial property protection and copyright and is familiar with the rules for the use of patent information resources	2018_P6S_WK
KIZ1_W05	is familiar with the principles of creating and developing forms of individual entrepreneurship, taking into account the principles of health and safety at work and ergonomics	2018_P6S_WK
SKILLS		
KIZ1_U01	can use available sources of information on geothreats, including electronic sources, and has the ability to correctly infer from data taken from different sources	2018_P6S_UW
KIZ1_U02	appropriately selects and applies research methods and tools in geothreat-linked sciences; independently carries out observations and measurements in the field or laboratory and uses statistical and information techniques to describe phenomena and analyse data; under the guidance of a scientific supervisor, the graduate carries out complex research tasks or expert reports on geothreats	2018_P6S_UW
KIZ1_U03	can prepare and present orally a geothreat study; uses a scientific language in their discourse with experts from the selected discipline related to earth sciences	2018_P6S_UK
KIZ1_U04	has the ability to understand and create written texts and speech, based on systemic knowledge of the language used in terms of its grammatical structures, lexis and phonetics; speaks a foreign language adequately to geothreat-linked sciences at the B2 level according to the Common European Framework of Reference for Languages	2018_P6S_UK
KIZ1_U05	can plan and carry out tasks individually and in a team	2018_P6S_UO
KIZ1_U06	learns on their own in a targeted manner	2018_P6S_UU
SOCIAL COMPETENCES		
KIZ1_K01	demonstrates the need to constantly update knowledge related to the programme and to improve professional and personal competences; can identify priorities, identify and resolve dilemmas related to the profession independently or with experts	2018_P6S_KK
KIZ1_K02	can think and act in an entrepreneurial way taking into account the public interest	2018_P6S_KO

KIZ1_K03	understands the non-technical aspects and effects of engineering activities, including its impact on the environment and the associated responsibility for decisions; is responsible for safety of their own work and others' work, is able to manage in emergency states	2018_P6S_KO, 2018_P6S_KR
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Code of the learning outcome of the programme	Learning outcomes leading to the acquisition of engineering competences The graduate:	Codes of the second-order PRK characteristics to which the learning outcome of the programme is related
KNOWLEDGE		
KIZ1_W06	has knowledge of the life cycle of geothreat-linked equipment, facilities and technical systems and is familiar with the methods, techniques, tools and materials used to solve tasks in geothreat-linked environmental engineering	2018_inż_P6S_WG
KIZ1_W07	has knowledge of management, including quality management and running business	2018_inż_P6S_WK
SKILLS		
KIZ1_U07	can use analytical, simulation and experimental methods to solve engineering tasks aimed at geothreat	2018_inż_P6S_UW
KIZ1_U08	can notice systemic and non-technical aspects when formulating and solving engineering tasks related to geothreats	2018_inż_P6S_UW
KIZ1_U09	can carry out a preliminary economic analysis of engineering activities	2018_inż_P6S_UW
KIZ1_U10	can critically analyse the way of functioning and can assess existing technical solutions, particularly equipment, facilities, systems, processes and services, especially in relation to geothreats	2018_inż_P6S_UW
KIZ1_U11	can solve practical engineering tasks which require the use of standards, norms and technologies specific to anti-geothreat activities	2018_inż_P6S_UW