

1.	Field of study	Environmental Hazard Engineering
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2025/2026 (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
<b>KNOWLEDGE</b>		
W01	has an advanced knowledge of geohazard sciences, knows the applicable terminology and understands the complexities of geohazard phenomena	2018_P6S_WG
W02	knows a selection of facts, objects and phenomena and the methods and theories explaining the complex interrelationships between them	2018_P6S_WG
W03	knows the techniques and research tools used in geohazard sciences, including statistical and IT tools for describing and interpreting phenomena that pose geohazards	2018_P6S_WG
W04	knows the fundamental dilemmas of modern civilization: economic, legal, ethical and other conditions of professional activity related to geohazards	2018_P6S_WK
W05	knows the application of the achievements of geo-risk sciences in social and economic life, taking into account the call for sustainable development	2018_P6S_WK
W06	has the required knowledge in the field of industrial property protection and copyright	2018_P6S_WK
W07	knows the principles of creating and developing forms of individual entrepreneurship with due regard for the principles of OSH and ergonomics	2018_P6S_WK
MOB.2023_W01	has advanced knowledge of selected scientific or scholarly theories and methods, is familiar with the issues specific to the chosen academic discipline and understands its connection with the leading discipline of the degree programme	2018_P6S_WG
OMU.2023_W01	has advanced knowledge of selected scientific theories and methods and is familiar with the issues specific to the selected academic discipline in the context of other disciplines	2018_P6S_WG
<b>SKILLS</b>		
U01	is able to use their knowledge, formulate and solve complex and unusual problems and perform tasks in various conditions	2018_P6S_UW
U02	is able to properly select available sources of information about geohazards and to analyse and synthesise such information critically	2018_P6S_UW
U03	is able to use appropriate methods and tools, including electronic sources and to make correct inferences from data derived from different sources.	2018_P6S_UW
U04	selects and applies research methods and tools in geosciences appropriately, independently conducts observations and measurements in the field or laboratory, and applies statistical and computer techniques to describe phenomena and analyse data;	2018_P6S_UW
U05	is able to prepare and present verbally a study in geohazards; uses scientific language in discourses with experts in the field of geosciences; is able to take part in a debate - to present and evaluate different views	2018_P6S_UK
U06	communicates clearly and comprehensibly in a foreign language at B2 level of the Common European Framework of Reference for Languages and uses appropriate knowledge and terminology	2018_P6S_UK
U07	is able to plan and carry out tasks individually as well as in a team	2018_P6S_UO
U08	is able to plan and carry out his/her own lifelong learning independently	2018_P6S_UU
KJ.2023_U	clearly and comprehensibly communicates with others in a foreign language at the B2 level of the Common European Framework of Reference for Languages, making use of his/her knowledge and terminology	2018_P6S_UK

MOB.2023_U01	asks questions, analyzes research problems and finds solutions to them based on the knowledge, skills and experience he/she has gained within the chosen academic discipline in conjunction with the leading discipline of the degree programme; communicates the results of his/her work in a way which is clear and understandable not only to specialists	2018_P6S_UK, 2018_P6S_UW
OMU.2023_U01	has advanced skills in asking research questions, analyzing problems or providing practical solutions to them based on the knowledge, experience and skills gained within the chosen academic discipline in the context of other disciplines	2018_P6S_UW
<b>SOCIAL COMPETENCES</b>		
K01	is ready to critically evaluate his/her knowledge, demonstrates the need to continuously update his/her field knowledge and to improve his/her professional and personal competence	2018_P6S_KK
K02	is able to prioritise, identify and resolve professional dilemmas, either independently or by consulting experts	2018_P6S_KK
K03	is willing to act in an entrepreneurial manner, taking into account the public interest	2018_P6S_KO
K04	is ready to perform engineering activities and take responsibility for the decisions made	2018_P6S_KR
K05	is responsible for his/her own and others' safety and knows how to act in emergencies	2018_P6S_KR
K06	is ready to perform professional roles responsibly, adhere to the principles of professional ethics and care for the achievements and traditions of the profession	2018_P6S_KR
MOB.2023_K01	is ready to meet social obligations, co-organize activities for the benefit of the community and is open to scientific solutions to cognitive and practical problems	2018_P6S_KK, 2018_P6S_KO
OMU.2023_K01	acknowledges and makes use of knowledge from different disciplines and is ready to change opinion in the light of scientifically proven arguments	2018_P6S_KK

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
<b>KNOWLEDGE</b>		
W08	has knowledge of the life cycle of equipment, facilities and technical systems related to geohazards and knows the methods, techniques, tools and materials used in solving tasks in the field of environmental engineering focused on geohazards	2018_inż_P6S_WG
W09	has knowledge of management, including quality management and business management	2018_inż_P6S_WK
<b>SKILLS</b>		
U09	is able to use analytical, simulation and experimental methods to solve engineering tasks directed at geohazards	2018_inż_P6S_UW
U10	is able – when formulating and solving engineering tasks in the field of geohazards – to perceive their systemic and non-technical aspects	2018_inż_P6S_UW
U11	is able to carry out preliminary economic analysis of the undertaken engineering activities	2018_inż_P6S_UW
U12	is able to critically analyse how existing technical solutions, in particular equipment, facilities, systems, processes and services, work and evaluate them, especially in relation to geohazards	2018_inż_P6S_UW
U13	knows how to solve practical engineering tasks requiring the use of standards, norms and technologies specific to geohazard mitigation activities	2018_inż_P6S_UW