1.	Field of study	Geography
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2022/2023 (winter term), 2023/2024 (winter term), 2024/2025 (winter term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

Module: Geomorphology – environmental and applied issues

Module code: W2-GF-S2-224

1. Number of the ECTS credits: 3

2. Learning outcomes of the module

code	description	learning outcomes of the programme	level of competence (scale 1-5)
W2-GF-S2-224_1	Student has current knowledge in science, especially in the field of geomorphology, applied research methods and understands the basic geomorphological phenomena and processes. Student has knowledge in science at the level of forecasting (modeling) the course of natural phenomena and processes and has awareness of specialized IT tools and of the principles of research planning using the techniques and research tools used in Earth sciences.	KGG2_W01 KGG2_W02	3 4
W2-GF-S2-224_2	Student has the ability to use knowledge in the field of geomorphology to determine the relationship between various elements of the surface morphology of the Earth in a different spatial scale, assess the intensity and effects of geomorphic processes for the environmental issues. Applies advanced IT tools to model, predict and solve specific problems related to Earth sciences. Student has a skill of critical analysis and selection of information from various sources and correctly interprets and explains natural phenomena. He is able to obtain and interpret empirical data and formulate appropriate conclusions based on them, as well as formulate his own critical opinion and propose solutions independently using the proper research method. Student plans and performs research tasks or expertise under the guidance of a scientific supervisor.	KGG2_U01 KGG2_U02 KGG2_U03 KGG2_U05	2 4 4 2
W2-GF-S2-224_3	Student is able to supplement and improve the acquired knowledge and skills in science, in the field of geomorphology especially	KGG2_K01	3

3. Module description

Description	The subject of this learning module is geomorphology as an interdisciplinary and systematic study of landforms and their landscapes, as well as the earth surface processes that create and change them. Both, lectures and laboratories will be focused on methods, tools and general issues of environmental and applied geomorphology, analyses and mapping of landforms to define hazards and resources – maps, models and prediction tools. Special emphasis will be placed on the student's work requiring the application of geomorphic knowledge in solving practical issues, useful to consultants, decision-makers involved with hazards, land-use planning, environmental management and natural resources.
Prerequisites	

4. Assessment of the learning outcomes of the module			
code	**type**	**description**	**learning outcomes of the module**
W2-GF-S2-224_w_1	Written exam	Verification the acquired knowledge in the field of applied and environmental issues of geomorphology and student's independent work in the field of supplementing and improving this knowledge.	W2-GF-S2-224_1, W2-GF-S2-224_2
W2-GF-S2-224_w_2	Continuous assessment	Verification of knowledge and practical skills and competences in the use of methods and tools in the field of applied and environmental issues of geomorphology. This will be based on projects performed by students on laboratory classes.	W2-GF-S2-224_1, W2-GF-S2-224_2, W2-GF-S2-224_3

5. Forms of teaching						
code	**form of teaching**			**required hours of student's own work**		**assessment of the learning outcomes of the module**
	type	**description (including teaching methods)**	**number of hours**	**description**	**number of hours**	
W2-GF-S2-224_fs_1	lecture	An introductory lecture on general, environmental and applied issues of geomorphology with the use of audiovisual aids	10	Unassisted acquisition of knowledge in the field of applied and environmental geomorphology and reading texts (books, papers, internet sources) expanding thematic knowledge, student consultations, preparation for the final exam.	15	W2-GF-S2-224_w_1
W2-GF-S2-224_fs_2	laboratory classes	Laboratory classes using project implementation using cartographic materials, GIS software and internet sources. Preparation of an essay in the field of chosen applied or environmental geomorphology issues.	30	Unassisted work with cartographic materials, using GIS software, independent implementation of projects, extending thematic knowledge with the use of scientific literature and internet sources, consultations.	20	W2-GF-S2-224_w_2