

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				
7.	7. General information about the module					
Мо	dule name	Engineering methods of the geohazard results prevention and limitation				
Module code		W2-IZ-S1-312				
Number of the ECTS credits		2				
Language of instruction		Polish				
Purpose and description of the content of education		The course aims to present selected engineering methods of preventing and limiting the effects of geohazards, including weathering, suffosion, karst, soil mass displacement processes within slopes, and seismic hazards. Particular attention was paid to the occurrence of catastrophic climatic phenomena and limiting their effects and large forest and agricultural fires, preventing their occurrence, limiting development, and repairing the damage. In addition, water erosion and anti-erosion meliorations were taken into account.				
List of modules that must be completed before starting this module (if necessary)		not applicable				

8. Learning	Learning outcomes of the module						
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)				
U01	he can use analytical, simulation and experimental methods to solve engineering tasks aimed at geohazards and limiting their effects as well as large forest and agricultural fires, preventing their occurrence, limiting development and repairing	К01	3				
		U01	3				
	damage. In addition, water erosion and anti-erosion meliorations were taken into account	U03	3				
		U09	3				
		W01	3				
		W02	3				
		W03	2				
U02	be able to solve practical engineering tasks using standards, norms and technologies specific to geohazards	U03	3				
		U12	4				
U03	be able to prepare a well-documented paper on geohazards and make an oral presentation on specific geohazard issues in both Polish and English	U13	5				



Code	Category	Name (description)		
b01	Problem-solving methods	Problem-based lecture an analysis of a selected scientific or practical problem accompanied by its assessment and an attempt to provide a solution to the issues presented in the lecture as well as the indication of the consequences of the proposed solution		
b04	Problem-solving methods	Activating method – discussion / debate an exchange of views supported by substantive arguments leading to a clash of different views, a compromise or the identification of common positions; it proceeds according to previously agreed-upon rules regarding the time, manner an turn-taking as well as the principles of civil discourse; a discussion is not a competition but aims at finding the best soluti or presenting different points of view; its varieties include brainstorming, Oxford-style debate, panel discussion, decision conference discussion; a debate is an orderly dispute between supporters and opponents of a viewpoint, usually special in the field or pre-selected representatives of a group dealing with a common problem		
c07	Demonstration methods	Screen presentation a presentation of synthetic image content using computer graphics, e.g., a series of slides or other multimedia forms, usually accompanied by a commentary; typical components of a screen presentation include text organized into bulleted points, charts, images and animations, sometimes sound effects or music; a multimedia illustration of course content presented in the form of a projected image		
d02	Programmed learning methods	Working with a programmed textbook working with a textbook containing instructional material covering part of or the entire curriculum of the module as well as a formula for studying the content; includes working with a subject textbook, an atlas, a catalogue, a problem book, etc.		
d03	Programmed learning methods	Working with another teaching tool e.g. using websites in any way or according to the rules set by the teacher; or making use of other subject-specific tools		
f02	Methods of self-learning	Individual work with a text searching for and acquiring new information using textbooks and other written sources (including their digital versions); searching for texts, selecting fragments for analysis/interpretation, using other texts to solve a problem related to the studied issue		
f03	Methods of self-learning	Conceptual work a (mainly intellectual) activity carried out independently (or in a selected group) resulting in the creation of a concept, idea or project; creating a plan based on a vision; developing a general outline of a project; producing a simplified sketch of the variant versions of a procedure/product/work		

10. Forms of teach	orms of teaching				
Code	Name		u u u u u u u u u u u u u u u u u u u	Learning outcomes of the module	Methods of conducting classes
W2-IZ-S1-312_fs_1	laboratory classes	30	course work	U01, U02, U03	b01, b04, c07, d02, d03, f02, f03

11. The student's	The student's work, apart from participation in classes, includes in particular:			
Code	Category	Name (description)	Is it part of the BUNA?	
a01	Preparation for classes	Search for materials and review activities necessary for class participation reviewing literature, documentation, tools and materials as well as the specifics of the syllabus and the range of activities indicated in it as required for full participation in classes	Yes	
a02	Preparation for classes	Literature reading / analysis of source materials reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source	Yes	



		materials to be used in class	
	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content reading through the syllabus and getting acquainted with its content	Yes
c02		Studying the literature used in and the materials produced in class exploring the studied content, inquiring, considering, assimilating, interpreting it, or organizing knowledge obtained from the literature, documentation, instructions, scenarios, etc., used in class as well as from the notes or other materials/artifacts made in class	Yes
c03		Implementation of an individual or group assignment necessary for course/phase/ examination completion a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course	Yes

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: <u>https://usosweb.us.edu.pl</u>.