

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				
Module name		Climate Change as a Source of Environmental Risks			
Module code		W2-IZ-S1-012			
Number of the ECTS credits		2			
Language of instruction		Polish			
Purpose and description of the content of education		The course familiarizes students with the results of research on climate change at various temporal and spatial scales. It takes into account the causes, effects and potential risks to people and the environment from climate change. Describes data acquisition methods and their reconstruction. In addition, the issues of scenarios of changes in climate conditions in the future are discussed.			
List of modules that must be completed before starting this module (if necessary)		not applicable			

8. Le	Learning outcomes of the module					
Co	ode	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)		
K01		the student is ready to critically assess their knowledge in the field of climate change, demonstrates the need for constant updating of this knowledge and improving professional and personal competences in the field of climate risks	К01	2		
U02		the student is able to properly select the available sources of information on climate change and make their critical analysis and synthesis	U02	3		
U13		the student is able to solve practical engineering tasks requiring the use of standards and norms appropriate for actions to counteract the effects of climate change	U13	2		
W05		the student knows the applications of scientific achievements regarding the effects of climate change in the natural environment and socio-economic life, taking into account the postulate of sustainable development	W05	4		

9.	Methods of cor	Methods of conducting classes		
Code Category		Category	Name (description)	
a02	2	Lecture methods / expository methods	Monographic lecture an exhaustive discussion of one issue, usually related to the research interests of the person teaching the course or a thorough presentation of one selected issue	
b0:	1	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	



b02	Problem-solving methods	Lecture-discussion transmission of content involving interaction with the lecture audience; discussion of lecture-related issues is one of its elements or constitutes its follow-up
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 and turn-taking as well as the principles of civil discourse; a discussion is not a competition but aims at finding the best solutions or presenting different points of view; its varieties include brainstorming, Oxford-style debate, panel discussion, decision tree, conference discussion; a debate is an orderly dispute between supporters and opponents of a viewpoint, usually specialists in the field or pre-selected representatives of a group dealing with a common problem
b07	Problem-solving methods	Activating methods: a case study a comprehensive description of a phenomenon connected with the selected discipline; reflecting the reality, presenting the 'what', 'where' and 'how' of the phenomenon, i.e., all of its key aspects to be discussed in class; used as a reproduction, presentation, discussion or diagnosis of factors that shape the phenomenon or interact with it; an in-depth qualitative analysis and evaluation of a selected phenomenon
c02	Demonstration methods	Video show reproducing a film or video material in its entirety or in fragments in order to illustrate the content taught in class, to submit it to analysis and evaluation or to use it as an exercise in image perception; a film/video can be a work of art, an illustration (also technical illustration) of a content/phenomenon/object, a private record of an action, a media image, etc.
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

10. Forms of teach	Forms of teaching				
Code	Name		Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
W2-IZ-S1-012	lecture	15	exam	K01, U02, U13, W05	a02, b01, b02, b04, b07, c02, c07

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?	
b01	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	
e01	Activities complementary to the classes	Undertaking, on one's own initiative and individually, activities aimed at expanding the scope or depth of the teaching content, also beyond the walls of the University a set of activities undertaken independently and on the student's own initiative, aimed at expanding the depth and scope of knowledge and skills, their revision and repetition, retention or verification, also activities carried outside the university, e.g., in a culture promoting or educational institution, a laboratory, in the open air, etc.; also self-education	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>.