

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

7.	General information about the module	
Module name		Remote Sensing of Natural Environment in school education
Module code		W2-GF-S1-N-213
Number of the ECTS credits		1
Language of instruction		Polish
Purpose and description of the content of education		The module "Remote sensing of the natural environment" aims to acquire knowledge about taking aerial and satellite photos and to acquire the ability to process these data. It indicates methods of using remote sensing data for monitoring and a better understanding of global and local processes on Earth's surface, based on analytical and digital techniques.
List of modules that must be completed before starting this module (if necessary)		not applicable

8.	Learning outcomes of the module			
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)	
U01	the student knows the principles of operation and operation of basic equipment and devices used to acquire and process remote sensing data. Is able to use basic knowledge in the field of remote sensing, general geographic knowledge and electronic sources in the interpretation of aerial and satellite photos. It uses remote sensing data to interpret natural processes taking place on the Earth's surface	U01	3	
U05	appreciates the value of scientific research from the point of view of the development of air and satellite techniques, and understands the need to update knowledge in the field of remote sensing	U05	2	
W01	the student has knowledge of the basic concepts and terminology used in remote sensing, knows and understands the theoretical basis of remote sensing data acquisition techniques. He is aware of the development of this discipline and its place in relation to other sciences	W01	3	

9.	Methods of conducting classes		
Code	Category	Name (description)	
a01	Lecture methods / expository methods	Formal lecture/ course-related lecture <i>a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided</i>	
d01	Programmed learning methods	Working with a computer	

		<i>e.g., Webquest; implementation of educational tasks using electronic and digital devices, computer programs and Internet applications; the academic teacher acts as a consultant; students' work is carried out step by step according to the plan laid own by the person teaching the course and following his instructions, and proceeds towards producing the indicated results within the set deadline</i>
d03	Programmed learning methods	Working with another teaching tool <i>e.g. using websites in any way or according to the rules set by the teacher; or making use of other subject-specific tools</i>
f02	Methods of self-learning	Individual work with a text <i>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</i>

10. Forms of teaching					
Code	Name	Number of hours	Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
W2-GF-S1-213_1	lecture	10	exam	U01, W01	a01, f02
W2-GF-S1-213_fs_2	laboratory classes	10	course work	U01, U05, W01	d01, d03

11. 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 <i>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</i>	No
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class <i>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</i>	No
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes <i>reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes</i>	No

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