

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		Geograficzne systemy informacyjne II (GIS II) in school education
Module code		W2-GF-S1-N-211
Number of the ECTS credits		3
Language of instruction		Polish
Purpose and description of the content of education		In the Geographic Information Systems II (GIS II) module, the student hones the skills of: creating vector data models, data visualization; data transformation and coordinate systems; raster image registration; working in selected GIS software packages. During consultations, problems arising during laboratory classes are solved.
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)	
K01	the student is able to complement and improve the acquired knowledge and skills in the use of online data sources	K01	4	
U01	the student uses available sources of geographic information, including electronic and Internet sources	U02	4	
U02	the student applies extended GIS algorithms and techniques to describe phenomena and analyze data	U03	4	
W01	the student defines the extended concepts of GIS, knows the course of development of this field and the research methods used	W01	4	
W02	the student understands the relationship between GIS achievements and the possibilities of their use in socio-economic life	W02	4	

9.	Methods of conducting classes		
Code	Category	Name (description)	
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>	
d02	Programmed learning methods	Working with a programmed textbook	

		<i>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.</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>

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-S1-211_fs_1	laboratory classes	25	course work	K01, U01, U02, W01, W02	d01, d02, 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
a03	Preparation for classes	Developing practical skills <i>activities involving the repetition, refinement and consolidation of practical skills, including those developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)</i>	Yes
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content <i>reading through the syllabus and getting acquainted with its content</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>.