

1.	Field of study	Geography
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2025/2026 (winter term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

7.	General information about the module	
Module name	GSEGP1: Application of GIS in population research	
Module code	W2-GF-S2-405	
Number of the ECTS credits	4	
Language of instruction	Polish	
Purpose and description of the content of education	The module introduces students to the basic GIS techniques used in population geography. This topic includes: obtaining population data (due to diverse sources), adapting data for processing in GIS software (editing, geocoding), presenting data using GIS methods (cartograph, cartogram, dot maps, isolines and others), and spatial analyses (population density for a given basic unit - square grid, hexagons, population density profiles, buffering, spatial differences in age and gender structure, education, wealth, origin of the population, population dynamics)	
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)
W2-GF-S2-405_1	Has knowledge of empirical data used in geographical and related sciences, including statistics, GIS, forecasting natural and socio-economic processes, and knows the principles of planning geographical research, data acquisition and tools for their description	KGG2_W02	4
W2-GF-S2-405_2	demonstrates the ability to critically analyze and select information from various sources and correctly interprets and explains natural, social and economic phenomena, as well as the mutual relations between them. Has the ability to practically use the acquired knowledge in various areas and forms	KGG2_U02	3
W2-GF-S2-405_3	is able to obtain and interpret empirical data and formulate appropriate conclusions based on them. Based on data from various sources and theoretical knowledge, is able to describe, analyze and interpret the causes and course of natural and social processes and phenomena and is able to formulate his/her own critical opinions and independently propose solutions using the appropriate research method	KGG2_U03	4
W2-GF-S2-405_4	the student updates and deepens his/her knowledge of natural sciences and socio-economics; understands the need to familiarize himself/herself with the current state of research in the field of geography and is able to independently supplement his/her knowledge with an interdisciplinary dimension	KGG2_K01	2

9. Methods of conducting classes		
Code	Category	Name (description)
b04	Problem-solving methods	Activating method – discussion / debate <i>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</i>
c07	Demonstration methods	Screen presentation <i>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</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>

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-S2-405_fs_1	laboratory classes	30	course work	W2-GF-S2-405_1, W2-GF-S2-405_2, W2-GF-S2-405_3, W2-GF-S2-405_4	b04, c07, 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
a02	Preparation for classes	Literature reading / analysis of source materials <i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i>	No
a04	Preparation for classes	Consulting materials complementary to those indicated in the syllabus <i>agreeing on materials complementary to those indicated in the syllabus, supporting the implementation of tasks resulting from or necessary 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>	Yes
b03	Consulting the curriculum and the organization	Consulting the schedule	Yes

	of classes	<i>getting acquainted with the class schedule, possibly in the presence of the year tutor, in order to optimize participation in classes, including those supplementary to the core subjects listed in the pursued study programme</i>	
--	------------	--	--

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>.