

1.	Field of study	Geography				
2.	Faculty	Faculty of Natural Sciences				
3.	Academic year of entry	Academic year of entry 2022/2023 (winter term), 2023/2024 (winter term), 2024/2025 (winter term)				
4.	Level of qualifications/degree second-cycle studies					
5.	Degree profile	general academic				
6.	Mode of study	full-time				

Module:

Opensource – introduction to QGIS software

Module code: W2-GF-S2-233

1. Number of the ECTS credits: 4

2. Learning outcomes of the module					
code	description	learning outcomes of the programme	level of competence (scale 1-5)		
W2-GF-S2-233 _1	The student defines the basic concepts in the field of GIS and knows the specifics of the Opensource GIS software	KGG2_W01	2		
	The student uses available sources of geographic information, including electronic once, uses basic algorithms and QGIS techniques to describe phenomena and data analysis, he can supplement databases	KGG2_U03	4		
W2-GF-S2-233 _3	The student can set priorities for the implementation of specific tasks	KGG2_K03	2		

3. Module description	
	The student learns the specifics of the example open source GIS software – QGIS – user interface, tools options and helpful plugins. Acquires skills: creating vector data models, data visualization, data transformation to chosen coordinate systems, raster image registration in given projection. He/she learns to solve problems that arise while working at QGIS.
Prerequisites	

4. Assessment of the learning outcomes of the module							
code type		description	learning outcomes of the module				
W2-GF-S2-233 _w_1	Project		W2-GF-S2-233_1, W2-GF- S2-233_2, W2-GF-S2-233_3				



5. Forms of teaching							
	form of teaching		required hours of student's own work		assessment of the		
code	type	description (including teaching methods)	number of hours	description	number of hours	learning outcomes of the module	
W2-GF-S2-233 _fs_1		Performing by the student work related to the implementation of the projects including the raster image registration to given coordinate system, vectorisation of the spatial data, its stylisation, cartographic visualization of the results		Preparation of materials, development of laboratory results, read the literature on the subject, consultations.	70	W2-GF-S2-233_w_1	