

	KAPITAŁ LUDZKI NARODOWA STRATEGIA SPÓJNOŚCI	Úni	ię Europe uropejskie	nansowany jską w rama go Fundusz ocznego	ich	UNIA EUROPEJSKA EUROPEJSKI FUNDUSZ SPOŁECZNY	
Course title					ECT	S code	
Water monitoring						1.0617	
Name of unit admir	nistrating study				I		
null							
Studies							
faculty	field of study		type	first tier stud	ies (BA		
Faculty of	Geography		form	full-time			
Oceanography and			specialty				
Geography		spec	ialization	all			
Teaching staff							
prof. dr hab. Julita	Dunalska						
Forms of classes, t	the realization and number of	of hour	S		ECT	S credits	
Forms of classes					3		
Tutorial							
The realization of a	The realization of activities						
classes outside UG premises, classroom instruction							
Number of hours							
Tutorial: 30 hours							
The academic cycle	e						
2024/2025 winter	semester						
Type of course			Language of instruction				
an elective course			English				
Teaching methods			Form and method of assessment and basic criteria for eveluation or				
- group work - multimedia-based lecture			examination requirements				
			Final evaluation				
- project-based me	ethod (research, implementati	ion,	Graded credit				
practical project)	)		Assessment methods				
- seminar lecture			ssignment work – conducting research and presenting results				
			The basic criteria for evaluation				
			After confirming the implementation of learning outcomes, the student obtains a grade				
			depending on the score obtained (51-60% - 3.0; 61-70% - 3.5; 71-80% - 4.0; 81-90% - 4.5; 91-100% - 5.0).				
Method of verifying	g required learning outcome	-					
	and introductory requirement						
A. Formal requireme	ents						
Lack							
B. Prerequisites							
Knowledge of Englis	sh						
Aims of education							
		-		d in the world	. The s	ubject includes auditorium and field classes. Classes	
	ked form at the Limnological Stati	ion in Bo	orucino.				
Course contents							
flow of information a	t the national and international le	vel; getti	ing acquair	nted with the	role of v	principles of creating monitoring in Poland (PMŚ) and the volunteers in water monitoring as part of citizen science;	
· -	rpretation of the obtained results				-	ern equipment and measurement devices and high ct analysis.	



Bibliography of literature			
GIOŚ. 2020. Strategic Programme of the State Environment GIOŚ, WIOŚ. Reports on the state of the environment in Po Marcé R et al. 2016. Automatic High Frequency Monitoring t 50(20): 10780-10794.	-		
The learning outcomes (for the field of study and specialization)	Knowledge		
K_W07 P6U_W, P6S_WG K_W08 P6U_W, P6S_WG , P6S_WK K_U06 P6U_U, P6S_UW, P6S_UO K_U08 P6U_U, P6S_UK K_K04 P6U_K , P6S_KO	<ul> <li>K_W07 Knows the principles of environmental sampling.</li> <li>K_W08 Student has well-established knowledge in the field of measurement a interpretation of monitoring data. Knows the indicators of pollution of the aqua environment.</li> <li>Skills</li> <li>K_U06 Is able to select and independently apply basic research techniques a tools, in compliance with established analytical procedures, in the field of aqua environment research.</li> <li>K_U08 Student reads with understanding specialized scientific texts and form opinions on water quality in English.</li> </ul>		
	Social competence K_K04 It is responsible for the protection of the natural environment.		
Contact			
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