

Subject card

Subject name and code	Summer school - Interdisciplinary research on the environmental changes, PG_00135496						
Field of study	Physical geography and geoinformation						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	postgraduate studies	Subject group			Obligatory subject group in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			3.0		
Learning profile	academic	Assessment form					
Conducting unit	Pracownia Badań Klimatu -> Katedra Oceanografii Fizycznej i Badań Klimatu -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Janusz Filipiak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Additional information: classes outside the UG teaching facilities classes in the teaching room						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		15.0		30.0	75
Subject objectives	<p>Familiarization with the specifics of field geomorphological, hydrological and climatological studies.</p> <p>Characterization of the elements and phenomena shaping the physical-geographic differentiation of the young glacial areas.</p> <p>Demonstration of the advantages of an interdisciplinary approach in geographic research.</p> <p>Demonstration of the trends and scenarios of environmental transformations on a local scale.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GFGMU2_U07] efficiently perform, present and discuss the results of individual or group research, using a properly understood cause-and-effect sequence of the applied research procedure, visualizing the results of spatial data analysis and reliably documenting own contribution to the conducted procedure	Student is able to efficiently perform, understandably present and discuss the results of the research conducted in the group, skillfully visualizing the results of spatial data analysis.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[GFGMU2_K03] accepting responsibility for group work assuming various roles in it, participating in preparation of scientific projects, taking responsibility for the equipment and safety rules, active developing of professional competences and knowledge in Earth and environmental sciences and geoinformation, including interdisciplinarity, as well as developing the principles of professional ethics, respecting copyright rules	Student is ready to work in a group assuming various roles in it, participate in the preparation of scientific projects, take responsibility for the equipment entrusted and work safety, as well as observe and develop professional ethics.	[SK2] presentation/project/paper/report [SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[GFGMU2_W05] principles of planning field and laboratory research using techniques and research tools used in geomorphology, hydrology and climatology, as well as principles of operating equipment and devices used to obtain and process digital geographic information in accordance with health and safety principles	Student knows and understands the principles of planning field and laboratory investigations using research techniques and tools used in geomorphology, hydrology and climatology.	[SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[GFGMU2_U09] plan individually or in a group and perform specialized field measurements and observations of processes and phenomena occurring in the natural environment and interpret their results	Student is able to plan and perform specialized field measurements interacting in a group, as well as conduct observations of processes and phenomena occurring in the natural environment.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[GFGMU2_K02] active actions to raise awareness of changes occurring in the natural environment and their consequences, as well as initiating activities for the protection of the natural environment	Student is ready to take an active role in raising awareness about changes in the natural environment and their consequences in human life.	[SK8] observation of student's independent or team work
	[GFGMU2_U05] integrate knowledge from the discipline of Earth and environmental sciences, explaining and interpreting the interrelationships between environmental processes and phenomena in order to solve research problems in physical geography and geoinformation	Student is able to integrate knowledge of earth and environmental sciences, correctly explaining and interpreting the interrelationships between processes and phenomena on a local scale.	[SU5] implementation of a problem task
	[GFGMU2_U06] comprehensively characterize the selected area, explaining the causes of physical and geographical diversity and assessing contemporary changes in the landscape, along with an attempt to present a forecast of the further directions of development	Student is able to comprehensively characterize the selected area, explaining the causes of physical-geographic differentiation and assessing contemporary changes in the landscape with an attempt to provide a forecast of the further direction of development.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task
Subject contents	A1. Current problems in the study of transformation of the natural environment at the local scale. General principles of conducting field work. A2. Analysis of archival cartographic materials - selected for the current topic of the class. A3. Mapping of relief, surface formations and soils - selected to the current topic of the class. A4. Mapping of surface water - selected to the current topic of classes. A5. Mapping of climate at the local scale - selected for the current topic of classes. A6. Mapping vegetation and land use - selected for current class topic. A7. Advantages and challenges of interdisciplinary approaches. A8. Peculiarities of environmental changes in young glacial areas.		

Prerequisites and co-requisites	-		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation prepared in accordance with the predetermined criteria	51.0%	50.0%
	achieving a passing grade on the credit work	51.0%	50.0%
Recommended reading	Basic literature	Gutry-Korycka M., Werner-Więckowska H., 1989, Przewodnik do hydrograficznych badań terenowych. PWN, Warszawa. Richling A. (red.), 2007, Geograficzne badania środowiska przyrodniczego. PWN, Warszawa. Wyszowski A., 2008, Przewodnik do ćwiczeń terenowych z meteorologii i klimatologii. UG, Gdańsk.	
	Supplementary literature	Bociąg K., Chlost I., Cieśliński R., Gos K., Kujawa-Pawlaczyk J., Makles M., Pawlaczyk P., 2017, Torfowiska jako zbiorniki węgla zamierzenie renaturyzacji torfowisk w Słowińskim Parku Narodowym. Studia i materiały CEPL w Rogowie, R.19, Zeszyt 15 (2): 62-76. Chlost I., 2009, Kartograficzny zapis zmian sieci wodnej Niziny Gardneńsko-Łebskiej w okresie XIX i XX wieku [w:] Kaniecki A., Baczyńska A. (red.) Zmiany stosunków wodnych w czasach historycznych. Studia i Prace z Geografii i Geologii nr 9, Bogucki Wydawnictwo Naukowe, Poznań: 17-32. Filipiak J., Korzeniewski J., Wyszowski A., 2006, Warunki topoklimatyczne rejonu rynny Jezior Raduńskich [w:] Miętus M. Filipiak J., Jakusik E., Korzeniewski J., Malik P., Malinowska M., Marosz M., Miętus M., Owczarek M., Sobieraj M., Wojtkiewicz A., Wyszowski A., Klimat rynny Jezior Raduńskich, IMGW, Warszawa: 170-190. Pawlaczyk P., Wolejko L., Jermaczek A., Stańsko R., 2002, Poradnik ochrony mokradel, Wydawnictwo Lubelskiego Klubu Przyrodników, Świebodzin. Poraj-Górska A., Żarczyński M.J., Ahrens A., Enters D., Weisbrodt D., Tylmann W., 2017, Impact of historical land use changes on lacustrine sedimentation recorded in varved sediments of Lake Jaczno, northeastern Poland. Catena, 153: 182-193.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	The transformation and role of wetlands (marshes, bogs) in the modern world		
Work placement	Not applicable		

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