University of Gdańsk

Subject card

Subject name and code	Water Conditions of South Baltic Coastlands and Lakelands - lecture, PG_00194286						
Field of study	Geography						
Date of commencement of studies	October 2027		Academic year of realisation of subject	2029/2030			
Education level	Bachelor's studies		Subject group	Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	3		Language of instruction	Polish			
Semester of study	6		ECTS credits	2.0			
Learning profile	academic		Assessment form	credit			
Conducting unit	Laboratory of Limnology -> Department of Hydrology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Roman Cieśliński				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	0.0	0.0	0.0	20
	E-learning hours included: 0.0						
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	20		1.0		29.0	50
Subject objectives	Knowledge of the spatial diversity of hydrographic relations in the lake districts and coastlines of the southern Baltic Sea. Discussion of events taking place in water environment processes whose course determines and conditions the hydrography and hydrology of lake areas and shores						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOGRL3-W05] knows the interactions between the natural and anthropogenic environments on various spatial and temporal scales, with particular emphasis on the processes and phenomena occurring in the area of the South Baltic Coast and Lake District and the conditions of these interactions	K_W05 - has knowledge about the geographical environment of the Earth, understood as a uniform system of interconnected and interacting components, including the interaction of environmental components in the Coastal area and South Baltic Lake Districts; Program content: A1-A8.	[SW4] test/exam - oral or written
[GEOGRL3-K01] is prepared to critically assess the level of one's knowledge, use it in professional activities and, in case of difficulties, to be assisted by the knowledge of experts	K_K01 - the student is able to critically refer to the level of his/her knowledge and using it in professional activities; Program content: A1-A8.	[SK4] test/exam - oral or written
[GEOGRL3-U01] can dentify and analyze basic natural and socio-economic processes and phenomena, analyze their causes and course, and formulate and discuss basic issues concerning physical-geographical conditions and the social, economic, and political situation and their changes on various spatial scales	K_U01 - the student is able to identify and analyze basic processes and phenomena natural and analyze their causes and course; Program content: A1-A8	[SU4] test/exam - oral or written
[GEOGRL3-U02] can use theoretical knowledge in the field of geography and available sources of information to correctly interpret basic natural, social, economic, and political processes and phenomena	K_U02 - is able to formulate and analyze basic problems regarding changes in... physical and geographical conditions; Program content: A1-A8.	[SU4] test/exam - oral or written
[GEOGRL3-U05] can use scientific language and express opinions and discuss topics related to geography in Polish and a foreign language	K_U05 - is able to find and select necessary information from the literature professional and other sources, including electronic sources; Program content: A1-A8.	[SU4] test/exam - oral or written

Subject contents

A. Topics of the lecture

A.1 Basic definitions: water relations, components of the water cycle, natural features of coastal areas and lake districts

A.2 Problems occurring in the sea-land contact zone (sea level rise, storm surges, water salinity, etc.)

A.3. Characteristics of the hydrographic network and coastal waters

A.4. Characteristics of water reservoirs: lakes, melting ponds

A.5. Characteristics of groundwater circulation

A.6. Marsh areas, peat bogs, coastal nature reserves dependent on water

A.7 Areas with natural circulation and human-forced circulation.

A.8 Quality of surface and groundwater

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
exam	51.0%	100.0%

Recommended reading	Basic literature	A. Literature required to finally pass the course (pass the exam): A.1. used during classes A.2. studied independently by the student - Augustowski B., (ed.), 1977, Pomerania, GTN, Department V Earth Sciences, Gdańsk. - Augustowski B., (ed.), 1984, Pojezierze Pomorskie, GTN, Gdańsk. - Bajkiewicz-Grabowska E., Mikulski Z., 2002, General hydrology, PWN, Warsaw. - Bogdanowicz R., Fac-Beneda J., (ed.), 2009, Water resources and their protection, FRUG, Gdańsk. - Chełmicki W., 2002, Water. Resources, degradation, protection. Ed. Science. PWN, Warsaw.
	Supplementary literature	B. Additional literature - Byczkowski A., 1979, Hydrological basis of water reclamation projects, PWR i L, Warsaw. - Major M., Cieśliński R., 2015, Retentivity as an Indicator of the Capacity of Basins without an Outlet to Accumulate Water Surpluses, Polish Journal of Environmental Studies, vol. 24, No. 6, DOI: 10.15244/pjoes/58650 - Major M., Cieśliński R., 2017, Impact of hydrometeorological conditions on the chemical composition of water in closed-basin kettle ponds: A comparative study of two postglacial areas, Journal of Elementology, 22 (1), 151-167 - Olszewska A., Cieśliński R., 2017, Hydrological conditions of the transport of biogenic substances in a young glacial catchment of various types use (on the example of the Zbrzyca catchment area), Gaz, Woda i Technika Sanitarna, 1/2017 (91), 33-36. - Partyka J., Pociask-Karteczka J., (ed.), 2008, Waters in protected areas, IG and GP UJ, Kraków. - Pietruszyński Ł., Cieśliński R., 2018, The effects of different land use and hydrological types on water chemistry of young glacial ponds, Journal of Hydrology, 564, 605-618. - Pociask-Karteczka J. (ed.), 2003, Zlewnia. Properties and processes, Ed. Jagiellonian University, Kraków
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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