University of Gdańsk

Subject card

Subject name and code	Hydrology and oceanography - lecture, PG_00119889						
Field of study	Geography						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2025/2026			
Education level	undergraduate studies		Subject group	Obligatory subject group in the field of study 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	2		Language of instruction	Polish polish			
Semester of study	3		ECTS credits	2.0			
Learning profile	academic		Assessment form				
Conducting unit	Pracownia Limnologii -> Katedra Hydrologii -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Wojciech Maślanka					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		6.0		20.0	56
Subject objectives	1. Learning the causes and geographical conditions of water circulation in nature. 2. Spatial diversity of hydrosphere objects and their characteristics. 3. Learning the sources of hydrological information. 4. Mastering the ability to prepare the results of hydrometric measurements.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOGRL3-W05] Has advanced knowledge of the environment Earth's geographic environment, understood as a unified system of interrelated and interacting each other's components; its diversity, functioning and dynamics of change, including the mutual interaction of environmental components in the area of South Baltic Coastal and Lake Districts	K_W05 Knows and understands the interactive relationships connecting the hydrosphere with others geospheres (Thematic content: A. 1-10)	[SW4] test/exam - oral or written
[GEOGRL3-W02] key concepts in geography and theories on spatial variation and distribution of processes and phenomena on the Earth's surface	K_W02 Knows and understands basic hydrological terminology (Thematic content: A.1-10)	[SW4] test/exam - oral or written
[GEOGRL3-W07] on advanced level methods of aquiring data on the natural and anthropogenic environment, including operation of specialized equipment	K_W07 Knows the methods of obtaining hydrological information (Thematic content: A.1-10)	[SW4] test/exam - oral or written
[GEOGRL3-W08] at an advanced level methods and principles development of data on the natural and anthropogenic environment, and methods of their analysis and interpretation	K_W08 Knows and understands the methods and purpose of developing hydrological data (Thematic content: A.1-10)	[SW4] test/exam - oral or written
[GEOGRL3-W03] in an advanced degree the processes and phenomena occurring in the natural environment of the Earth, with particular emphasis on the processes and phenomena occurring on the territory of Poland, especially the Coastal and South Baltic Lake Districts	K_W03 Understands the concept of the hydrological cycle and knows the governing processes depletion and replenishment of water resources (Thematic contents: A.1-10)	[SW4] test/exam - oral or written

Subject contents

A. Topics of the lecture:

A.1. Subject and scope of hydrology research.

A.2. Hydrosphere and its properties.

A.3. An underground link in the water cycle.

A.4. Hydrographic objects (springs, streams, lakes, swamps, glaciers).

A.5. Territorial hydrographic units.

A.6. The terrestrial part of the hydrological cycle.

A.7. Water balance and its changes.

A.8. Thermal and dynamic processes in inland waters.

A.9. River debris.

A.10. Selected issues in oceanography.

Prerequisites and co-requisites

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exercises	51.0%	50.0%
	exam	51.0%	50.0%

Recommended reading		
	Basic literature	A. Literature required to finally pass the course (pass the exam): A.1. used during classes: Bajkiewicz-Grabowska E., 2011, General hydrology, Ed. Science. PWN, Warsaw. Kosowska-Cezak U., Bajkiewicz-Grabowska E., 2009, Basics of hydrometeorology. Ed. Nauk PWN, Warsaw. Choiński A., 2000, Lakes of the globe, PWN, Warsaw A.2. studied independently by the student Duxbury A. C., Duxbury A. B., Sverdrup K. A., 2002, Oceans of the world, PWN, Warsaw. Łomniewski K., 1969, Physical oceanography, PWN, Warsaw. Łomniewski K., Mankowski W., Zaleski J., 1975, Baltic Sea, PWN, Warsaw. Pazdro Z., 1983, General hydrogeology, Ed. Geol., Warsaw. Dynowska I., Tlałka A., 1982, Hydrografia, PWN, Warszawa-Poznań. Dynowska I., 1971 Types of river regimes in Poland, Works of IG UJ, Kraków. Lange W. (ed.), 1993, Methods of physical-limnological research, UG script, Gdańsk.
	Supplementary literature	.Choiński A., Kaniecki A., 1996, Waters of the Earth, Great Encyclopedia of World Geography, vol. IV, ed. Kurpisz, Poznań. Czaya, 1987, Rivers of the Earth, PWN, Warsaw. Majewski A., 1992, Oceans and Seas, PWN, Warsaw.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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