

Subject card

Subject name and code	Hydrology and oceanography - laboratory, PG_00119890						
Field of study	Geography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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		
Semester of study	3		ECTS credits		2.0		
Learning profile	academic		Assessment form				
Conducting unit	Laboratory of Limnology -> Department of Hydrology -> Faculty of Oceanography and Geography -> Rector						
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	0.0	0.0	20.0	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		5.0		25.0	50
Subject objectives	1. Learning the sources of hydrological information.						
	2. Mastering the ability to prepare the results of hydrometric measurements.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GEOGRL3-K02] bear full responsibility for the actions taken actions and adhere to the principles of professional ethics and principles of intellectual honesty, is aware of the importance of a professional approach in professional life professional life	K_K02 Demonstrates responsibility, systematicity and compliance principles of intellectual honesty (Thematic content: B.1-8)	[SK3] text preparation/written work
	[GEOGRL3-U06] apply methods and research tools of geographic sciences, including conducting observations and field measurements, and assess their suitability for the tasks in which the application objective of geography can be achieved	K_U06 Is able to prepare and analyze measurement results hydrometric (Topic content: B.1-8)	[SU3] text preparation/written work
	[GEOGRL3-U02] formulate and analyze basic problems concerning changes in physical and geographic conditions and the social, economic and political situation in local, regional and global scales	K_U02 Is able to explain the changes taking place in the hydrosphere (Thematic content: B.1-8)	[SU1] oral statement/conversation/discussion
	[GEOGRL3-U01] identify and analyze basic natural and socio-economic processes and phenomena and analyze their causes and course	K_U01 Identifies the processes governing the depletion and replenishment of resources water (Thematic content: B.1-8)	[SU1] oral statement/conversation/discussion
	[GEOGRL3-U05] find and select the necessary information from professional literature and other sources, including electronic sources	K_U05 Is able to collect the necessary information to provide a comprehensive characteristics of the catchment area (basin) (Thematic content: B.1-8)	[SU3] text preparation/written work
	[GEOGRL3-U03] use theoretical knowledge of geographic sciences and available sources of information to correctly interpret basic natural, social, economic and political processes	K_U03 Interprets hydrological processes and phenomena using the acquired knowledge theoretical (Thematic content: B.1-8)	[SU4] test/exam - oral or written
	[GEOGRL3-U08] use scientific language and express themselves and discuss topics concerning geographic issues in Polish and in a foreign language	K_U08 Uses professional hydrological terminology (Thematic content: B.1-8)	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written
	[GEOGRL3-U07] use geoinformatics techniques and simple statistical tools and methods of spatial analysis to determine relationships between a variety of variables specific to the geographic environment and present the results of the analyses performed	K_U07 Applies selected statistical and geoinformation techniques in analysis catchment geosystem (Thematic content: B.1-8)	[SU3] text preparation/written work

Subject contents	B. Problems of exercises: B.1 Hydrographic units and the ability to isolate them B.2 Elements of the hydrographic characteristics of the catchment (morphometric and physico-geographic parameters of the catchment, parameters of the water network, structure hydrographic catchment area). B.3 Characteristics of river runoff (variability of water levels and flows, runoff measures, size and structure of runoff, river water systems). B.4 Water balance of the controlled catchment. B.5 Selected elements of limnological characteristics (morphometry of lake basins, thermals of lake water). B.6 Groundwater and its characteristics. B.7 Hydrographic map of Poland at a scale of 1:50,000 as a source of information about water (map content, map interpretation, ways of presenting phenomena and natural and anthropogenic threats related to water). B.8 Oceanography with particular emphasis on the Baltic Sea - features of ocean waters (physical and chemical properties of sea waters, division of ocean waters); The Baltic Sea compared to other European seas		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	partial exercises	51.0%	50.0%
	final test	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., Magnuszewski Z., 2009,guide to exercises in general hydrology, Ed. Science. .PWN, Warsaw A.2. studied independently by the student: 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	B. Additional literature: Technical guidelines K 3-4. Hydrographic map on a scale of 1:50,000, 1985, Warsaw.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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