University of Gdańsk

Subject card

Subject name and code	Hydrology and oceanography - laboratory, PG_00119890		
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	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-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
	[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

<table>
<tr><td>Subject contents</td><td>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</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>partial exercises</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>final test</td><td>51.0%</td><td>50.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>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</td></tr>
<tr><td>Supplementary literature</td><td>B. Additional literature:

Technical guidelines K 3-4. Hydrographic map on a scale of 1:50,000, 1985, Warsaw.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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