University of Gdańsk

Subject card

Subject name and code	Diploma Laboratory in Hydrology - laboratory classes, PG_00201521		
Field of study	Water Management and Protection of Water Resources		
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 practical vocational preparation
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	9.0
Learning profile	practical	Assessment form	credit
Conducting unit	Department of Hydrology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Joanna Fac-Beneda, prof. UG	
	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

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	2.0	193.0	225

Subject objectives

- To familiarise students with the methodology for the creation of simple works of the nature of a scientific monograph and to provide technical support in the independent preparation and editing of diploma (undergraduate) theses by students;
- Technical support in students' independent preparation and editing of thesis (bachelor's thesis) in the specified methodological convention and with correct documentation;
- Preparation of the bachelor thesis

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GWOZWL3-W12] basic concepts and principles in the field of protection of industrial property and copyright.	knows and understands the basic concepts and principles regarding the protection of industrial property and copyright in the context of water management and water law	[SW1] oral statement/ conversation/discussion
[GWOZWL3-K01] act independently and effectively organize own and team work, is ready to critically assess the degree of its advancement and completion of the tasks set.	is prepared to work independently and organize teamwork, and is prepared to critically evaluate the progress and execution of assigned tasks in the fields of hydrology and hydrometeorology, particularly regarding water management	[SK1] oral statement/conversation/ discussion [SK8] observation of student's independent or team work
[GWOZWL3-U17] learn and plan his development independently in a targeted manner.	is capable of learning and planning their professional development with a focus on hydrology and all related aspects	[SU3] text preparation/written work [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
[GWOZWL3-K03] systematic further education and professional development, updating and expand his knowledge and skills, understands the limitations of his own knowledge in the context of civilization progress and recognizes authorities in the professional and scientific environment.	is prepared for continuous professional development and further education, as well as for updating and expanding their knowledge and skills; understands the limitations of their own knowledge in the context of civilizational progress; and acknowledges recognized authorities within the professional and scientific communities.	[SK1] oral statement/conversation/ discussion [SK8] observation of student's independent or team work
[GWOZWL3-W07] knowledge of data sources and the theoretical foundations of data collection, compilation and evaluation for a dissertation.	knows and understands the sources of hydrological and hydrometeorological data as well as the theoretical foundations of data acquisition techniques; collects and preliminarily evaluates data for the thesis	[SW2] presentation/project/paper/ report [SW3] text preparation/written work
[GWOZWL3-U07] use literature and other available sources of information, including information technology, multimedia, Internet, databases, and select and critically evaluate information.	is able to use hydrological literature and other sources of hydrological and hydrometeorological information—including information technology, multimedia, Internet resources, and databases—and to select and critically evaluate information.	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU8] observation of student's independent or team work

Subject contents

1. Data sources in water science.
2. Methods of collecting literature and source materials.
3. Analysis and interpretation of scientific texts, statistical data and cartographic materials.
4. Principles of correct editing of a scientific text (methods of creating a voluminous text, layout of content, rules for making and including figures and tables in the work, figure and table captions, numbering of chapters, figures, tables, formulae, appendices, rules for citing literature in the text and creating a literature list, etc.).
5. Selected research methods in water science.
6. Preparation of reports on the various stages of the thesis.
7. Undergraduate thesis topics.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Oral presentation, participation in discussion	51.0%	10.0%
stage presentations of work progress	51.0%	40.0%
assessment of the thesis manuscript	51.0%	50.0%

Recommended reading

Basic literature	Literature related to the thesis

	Supplementary literature	• Weiner J., 1998, Techniques for writing and presenting natural science papers. A practical guide, PWN, Warsaw, • Requirements for editing master's theses, 2008, http:// geografia.univ.gda.pl/kat/kge/. • Apanowicz J., 2003, Methodology of sciences, Tow. Naukowe Organizacji i Kierownictwa Dom Organizatora, Toruń. • Bielec E., Bielec J., 2007, Handbook of writing papers, EJB Publishing House, Kraków. • Oliver P., 1999, How to write university papers: a guide for students, Wydawnictwo Literackie, Kraków. • Plit F., 2007, How to write undergraduate and graduate geography papers, Wyd. Uniw. Warszawskiego, Warszawa. • Wosik E. (ed.), 2005, Report on the principles of respect for authorship in theses and dissertations at academic and scientific institutions, Instytut Społeczeństwa Wiedzy / Polish Rectors Foundation, Warszawa.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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