

**Subject card**

<b>Subject name and code</b>	Basics of Designing a Thesis - laboratory classes, PG_00201453						
<b>Field of study</b>	Water Management and Protection of Water Resources						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2028/2029		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Subject group related to practical vocational preparation		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			e-learning		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	5	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	practical	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Department of Hydrology -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. Joanna Fac-Beneda				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 15.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	<b>Participation in didactic classes included in study plan</b>		<b>Participation in consultation hours</b>		<b>Self-study</b>	<b>SUM</b>
	<b>Number of study hours</b>	15		1.0		9.0	25
<b>Subject objectives</b>	<ul style="list-style-type: none"> <li>To familiarize students with the methodology of creating simple works in the form of a scientific monograph or project work.</li> <li>Developing the ability to plan and conduct simple scientific research with the support of a research supervisor.</li> <li>Developing the ability to correctly present the substantive assumptions and results of your research.</li> <li>Developing and improving the ability to critically evaluate the presented scientific content.</li> <li>Improving the ability to conduct a scientific discussion.</li> <li>The classes are aimed at helping you choose a topic and prepare a bachelor's thesis project.</li> </ul>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GWOZWL3-W01] The student knows and understands in advanced basic biological, physical and chemical processes and phenomena, as well as analyzes their mutual relations and course in relation to natural environment and socio-ecological systems.	Knows and understands - to an advanced level - selected factual objects and phenomena and the methods and theories related to them, explaining the complex interrelationships between them, constituting basic general knowledge in the field of water management and knows and understands the practical applications of this knowledge in professional activities related to water management.	[SW2] presentation/project/paper/report
	[GWOZWL3-U07] The student can use literature and other available sources of information, including information technology, multimedia, Internet, databases, and select and critically evaluate information.	Can apply his/her knowledge - formulate and solve complex non-standard problems. Selects sources and information appropriately, evaluates, critically analyses and synthesises such information, selects and applies appropriate methods and tools, including advanced information and communication technologies. Seeks out and uses literature for the diploma thesis in Polish and English and selects it.	[SU5] implementation of a problem task
	[GWOZWL3-K02] The student has the ability adhere to the principles of intellectual honesty and professional ethics.	Is ready to cultivate and disseminate models of appropriate behaviour in and outside the work environment, and participates in and accepts responsibility for the consequences of these actions.	[SK1] oral statement/conversation/discussion
	[GWOZWL3-K03] The student has the ability systematic further education and professional development, updating and expand their 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.	He is ready to perceived content, to recognise the importance of knowledge in solving cognitive and practical problems, and to consult experts when he has difficulties in solving a problem on his own.	[SK1] oral statement/conversation/discussion
	[GWOZWL3-K04] The student is able to maintain a critical attitude in accepting information from various sources relating to issues in the field of water management.	He is ready to critically evaluate the knowledge he possesses and the content he receives.	[SK1] oral statement/conversation/discussion
	[GWOZWL3-W12] The student knows and understands basic concepts and principles in the field of protection of industrial property and copyright.	knows and understands the basic concepts and principles of industrial property and copyright protection	[SW1] oral statement/conversation/discussion
	[GWOZWL3-U17] The student is able to learn and plan their development independently in a targeted manner.	Can plan and organise his/her own work individually and as part of a team and interact with others in teamwork. Can independently plan his/her own lifelong learning. Can organise his/her own work and critically assess the degree of progress.	[SU8] observation of student's independent or team work
	[GWOZWL3-W07] The student has advanced knowledge of data sources and the theoretical foundations of data collection, compilation and evaluation for a dissertation.	knows the sources of data and knows and understands the theoretical basis of data extraction techniques, collects and pre-assesses data for the thesis	[SW2] presentation/project/paper/report
	[GWOZWL3-U13] The student is able to read with understanding specialized scientific texts in Polish and foreign language.	Can understand specialist texts read in Polish and English.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work [SU5] implementation of a problem task

Subject contents	<ol style="list-style-type: none"> <li>1. Data sources in water science</li> <li>2. Methods of collecting literature and source materials.</li> <li>3. Analysis and interpretation of scientific texts, statistical data and cartographic materials.</li> <li>4. Selected research methods in water sciences.</li> <li>5. Bachelor's thesis topics</li> </ol>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	oral statement - article review	51.0%	45.0%
	presentation - draft table	51.0%	10.0%
	presentation - draft figure/map	51.0%	30.0%
	presentation - chart design	51.0%	15.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> <li>• Świąchowski J. (ed.), 2016, General studio. A guide to the development of key learning and research competencies during studies, IGI GP UJ, Kraków.</li> <li>• Weiner J., 1998, Technique of writing and presenting natural science papers. A practical guide, PWN, Warsaw.</li> <li>• Babbie E., 2007, Social research in practice, PWN, Warszawa.</li> <li>• Apanowicz J., 2003, Methodology of sciences, Tow. Naukowe Organizacji i Kierownictwa Dom Organizatora, Toruń.</li> <li>• Jażdżewska I., 2003, Statystyka dla geografów, Wydawnictwo Uniwersytetu Łódzkiego, Łódź.</li> </ul>	
	Supplementary literature	<ul style="list-style-type: none"> <li>• Bielec E., Bielec J., 2007, Handbook of Writing Works, EJB Publishing House, Kraków.</li> <li>• Oliver P., 1999, How to write university papers: a guide for students, Wydawnictwo Literackie, Kraków.</li> <li>• Plit F., 2007, How to write undergraduate and graduate geography papers, Wyd. Uniw. Warszawskiego, Warszawa.</li> <li>• Wosik E. (ed.), 2005, Report on the Principles of Respect for Authorship in Dissertations and Doctoral Theses at Academic and Scientific Institutions, Instytut Społeczeństwa Wiedzy / Fundacja Rektorów Polskich, Warszawa.</li> </ul>	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

Document generated electronically. Does not require a seal or signature.