

Subject card

Subject name and code	Master's workshop II (laboratory exercises), PG_00120352						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group 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		6.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Toxic Substances Transformation -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Magdalena Beldowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	85.0	0.0	0.0	85
	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	85		40.0		50.0	175
Subject objectives	Preparation of the Master Thesis						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OCEANMU2-W01] knows and understands in-depth specialized terminology used in oceanography and related sciences (in Polish and a selected foreign language)	Able to write theoretical chapters for a Master Thesis in precise, scientific language	[SW3] text preparation/written work
	[OCEANMU2-U05] is able to use source information in Polish and a selected foreign language, including archival and electronic databases, in the field of oceanographic issues, performs critical analysis and synthesis of information	Can compare the collected results with literature data. Can confirm the processes described with relevant references from the scientific literature.	[SU3] text preparation/written work
	[OCEANMU2-W05] knows and understands the principles of planning and conducting field and laboratory research as well as advanced methods and tools of scientific research, especially in the field of the studied specialty	Is able to take samples for chemical analysis, prepare them for analysis, perform chemical analyses. Is able to measure additional parameters.	[SW5] implementation of a problem task
	[OCEANMU2-K04] is ready to critically evaluate his/her knowledge and received content in the field of natural sciences in particular in the field of the studied specialty, a in problematic situations, supports oneself with knowledge experts	Be able to write a conclusion to the research presented in the thesis	[SK3] text preparation/written work
	[OCEANMU2-U08] is able to prepare a study of a given issue/ problem in Polish and a selected foreign language in written form (short scientific text, documented research work) and orally (paper, presentation) and discuss with specialists on topics related to oceanographic issues, with particular emphasis on the studied specialty	Can describe the results collected and explain the variation observed	[SU3] text preparation/written work
	[OCEANMU2-K03] is ready to effectively organize his/her own work, is active and persistent and punctuality in completing tasks, is ready to carrying out evaluation of their own activities	is able to work independently in the laboratory	[SK8] observation of student's independent or team work
Subject contents	topics proposed by the supervisors in the field of environmental chemistry		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	independent student work	51.0%	100.0%
Recommended reading	Basic literature	Books related to the topic of the Master Thesis	
	Supplementary literature	Scientific articles related to the topic of the Master Thesis	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Toxic metals in the marine environment 2. Phenols in the marine environment 3. Nutrients in the natural environment 4. Processes affecting the circulation of elements/chemicals in the marine environment 5. Chemical composition of aerosols		
Work placement	Not applicable		

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