

Subject card

Subject name and code	Marine Physics - Laboratory II - laboratory, PG_00206221						
Field of study	Oceanography						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
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 Physical Oceanography -> Department of Physical Oceanography and Climate Research -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Gabriela Gic-Grusza				
	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		5.0		60.0	150
Subject objectives	Implementation of the initial stage of the research for the Masters thesis: refining the research problem and hypotheses, conducting a literature review, developing the methodology and research plan; preparing computational/measurement tools, collecting pilot data, and performing preliminary analyses together with interpretation of the results.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OCEANMU2-U11] is able to work individually and cooperate in laboratory and field groups, performs various functions in them, including managerial ones, performs various assigned tasks		The student is able to work individually as well as collaborate effectively in laboratory and field teams, able to fulfill various roles, including coordination and management, and diligently performs assigned research tasks.		[SU2] presentation/project/paper/report [SU8] observation of student's independent or team 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		The student is prepared to effectively organize his or her own work in the laboratory and during fieldwork, demonstrates initiative, perseverance, and punctuality in completing tasks related to marine physics research; is prepared to critically evaluate his or her own activities and improve the research procedures used.		[SK8] observation of student's independent or team 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		The student knows and understands in depth the principles of planning and conducting research in marine physics, as well as advanced analytical and computational methods and research tools used.		[SW1] oral statement/conversation/discussion		

Subject contents	The topic and scope of research tasks are agreed individually with the Masters thesis supervisor, in line with the thesis subject and its specific requirements. The course includes: refining the research problem and objectives, literature review and critical analysis, development of methodology and a research plan (including selection of equipment/software and procedures), preparation of the computational environment or measurement setup, pilot studies (preliminary measurements/simulations/analyses), initial processing and interpretation of results, and drafting thesis sections (introduction, state of the art, methodology), with systematic progress documentation and consultations.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Observations on student's work	51.0%	20.0%
	Progress in th research related to the thesis	51.0%	80.0%
Recommended reading	Basic literature	Literature is selected for the student on an individual basis, according to the guidance of the thesis supervisor.	
	Supplementary literature	Literature is selected for the student on an individual basis, according to the guidance of the thesis supervisor.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Questions relevant to the thesis prepared and associated research.		
Work placement	Not applicable		

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