University of Gdańsk

Subject card

Subject name and code	Marine Physics - Laboratory II - laboratory, PG_00206221		
Field of study	Oceanography		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2028/2029
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-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
[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

<table>
<tr><td>Subject contents</td><td>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.</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>Observations on student's work</td><td>51.0%</td><td>20.0%</td></tr>
<tr><td>Progress in th research related to the thesis</td><td>51.0%</td><td>80.0%</td></tr>
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<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Literature is selected for the student on an individual basis, according to the guidance of the thesis supervisor.</td></tr>
<tr><td>Supplementary literature</td><td>Literature is selected for the student on an individual basis, according to the guidance of the thesis supervisor.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Questions relevant to the thesis prepared and associated research.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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