

Subject card

Subject name and code	MSc workshop III (Laboratory classes), PG_00201219						
Field of study	Physical geography and geoinformation						
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	4	ECTS credits				16.0	
Learning profile	academic	Assessment form				credit	
Conducting unit	Climate Research Laboratory -> Department of Physical Oceanography and Climate Research -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Mirosława Malinowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	90.0	0.0	0.0	90
	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	90		30.0		280.0	400
Subject objectives	<p>The primary aim of the Msc Workshop is to provide academic and technical support to students in the preparation of their Masters thesis, as well as to monitor their progress on an ongoing basis. The topic of the Masters thesis, selected from a list of proposals during the first semester of study as part of the Discussion classes course, relates to one of the subject areas covered by the programme:</p> <ul style="list-style-type: none"> - Quaternary geomorphology and geology, - hydrology, limnology and water protection, - meteorology and climatology, - geoinformation and - interdisciplinary topics combining selected aspects of the above. <p>The specific aim of the Msc Workshop III course is to provide seminar participants with substantive and technical support in the final stages of preparing their Masters thesis, including a detailed and critical interpretation of the results obtained from the analysis of research material, and an evaluation of the outcomes achieved in relation to the established research objectives and hypotheses.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GFGMU2_U07] is able to efficiently perform, present and critically interpret the results of individual or group research, using a properly understood cause-and-effect sequence of the applied research procedure, visualizing the results of spatial data analysis and reliably documenting own contribution to the conducted procedure	Able to efficiently perform, comprehensibly present and discuss the results of their own research using a properly understood cause-and-effect sequence of the applied research procedure, skillfully visualizing the results of spatial data analysis and credibly documenting their own contribution to the conducted procedure, curricular content: 1-3.	[SU1] oral statement/conversation/discussion [SU3] text preparation/written work
	[GFGMU2_U01] is able to find, select and critically evaluate sources of information about the research problem to be implemented	Able to find, select and critically evaluate sources of information on the research problem assigned for implementation, program content: 1-3.	[SU3] text preparation/written work
	[GFGMU2_K03] is ready to accepting responsibility for group work assuming various roles in it, participating in preparation of scientific projects, taking responsibility for the equipment and safety rules, active developing of professional competences and knowledge in Earth and environmental sciences and geoinformation, including interdisciplinarity, as well as developing the principles of professional ethics, respecting copyright rules	He is ready to actively expand professional competence and update knowledge in earth and environmental sciences and geoinformation enriching them with an interdisciplinary dimension, observing and developing the principles of professional ethics, including the observance of copyrights in his own and others' activities, curricular content: 1-3.	[SK3] text preparation/written work [SK8] observation of student's independent or team work
	[GFGMU2_U09] is able to plan individually or in a group and perform specialized field measurements and observations of processes and phenomena occurring in the natural environment and interpret their results	Can plan independently or cooperating in a group and perform specialized laboratory measurements and make observations of processes and phenomena occurring in the natural environment and interpret their results, curriculum content: 1-3.	[SU3] text preparation/written work
	[GFGMU2_U02] is able to precisely and appropriately use terminology in the field of physical geography and geoinformation in oral statements and written works	Able to proficiently and appropriately apply the terminology of physical geography and geoinformation in oral statements and written works, curriculum content: 1-3.	[SU1] oral statement/conversation/discussion [SU3] text preparation/written work
	[GFGMU2_U03] is able to effectively use selected scientific literature in the field of physical geography and geoinformation, both in Polish and English	Can effectively use skillfully selected for the purpose of application of scientific literature in the field of the research problem assigned for implementation, program content: 1-3.	[SU3] text preparation/written work
	[GFGMU2_W06] knows and understands in a deepened extent conceptual apparatus of physical geography and geoinformation, selected Polish and foreign literature on physical geography and principles of preparing and editing scientific texts	He knows and understands the advanced conceptual apparatus of physical geography and geoinformation, selected Polish and foreign language literature on physical geography, as well as the principles of preparing and editing scientific texts, program content: 1-3.	[SW3] text preparation/written work
	[GFGMU2_W05] knows and understands principles of planning field and laboratory research using techniques and research tools used in geomorphology, hydrology and climatology, as well as principles of operating equipment and devices used to obtain and process digital geographic information in accordance with health and safety principles	Knows and understands the principles of planning field and laboratory research using techniques and research tools used in geomorphology, hydrology and climatology, as well as the principles of operating equipment and devices for the acquisition and processing of digital geographic information, curriculum content: 1-3.	[SW3] text preparation/written work

Subject contents	<p>The course covers:</p> <ul style="list-style-type: none"> - completion of laboratory and/or analytical work on the research material, - verification of the methodological soundness of the analytical methods employed, - visualisation of the analysis results, - thorough and critical interpretation of the analysis results obtained, - drawing conclusions regarding the achieved results in relation to the adopted scientific objectives and research hypotheses, - finalising the Msc Thesis. <p>There can be individual aspects of the course dependent on the topic of the Msc Thesis.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	getting a positive grade for activity in classes	51.0%	30.0%
	Obtain a passing grade on the written paper prepared	51.0%	70.0%
Recommended reading	Basic literature		<p>Plit F., 2007, How to write undergraduate and graduate papers in geography, UW, Warsaw (in Polish).Weiner J., 2001, Technique of writing and presenting natural science papers, PWN Scientific Publishers, Warsaw (in Polish).</p>
	Supplementary literature		Supplementary literature adapted to the individual topic of the master's thesis performed.
	eResources addresses		
Example issues/ example questions/ tasks being completed	<p>Prepare a presentation of the final results of the thesis Prepare in written form the result chapters of the written thesis and conclusions</p>		
Work placement	Not applicable		

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