

**Subject card**

Subject name and code	, PG_00121055						
Field of study	Oceanography						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	postgraduate studies	Subject group			Optional subject group		
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			1.0		
Learning profile	academic	Assessment form					
Conducting unit	Pracownia Ichtologii -> Katedra Ekologii Morza -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Mariusz Sapota					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	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	15	6.0		5.0	26	
Subject objectives	Familiarization with the basics of observation methods and underwater documentation						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[OCEANMU2-K01] is ready to plan, implement and supervise, individually or collectively, next stages of the entrusted task, is ready to take responsibility for its results, cooperates effectively in the team and performs its functions in it various functions, including managerial ones	is ready to plan tasks related to underwater scientific work in a group			[SK8] observation of student's independent or team work		
	[OCEANMU2-U03] can plan and carry out independently advanced research and measurements, both in field and laboratory, using appropriately selected measurement and analytical techniques in the field of oceanography, adequately to the studied specialty and research problem	can independently plan oceanographic research and measurements using Scuba diving techniques			[SU6] demonstration of practical skills		
[OCEANMU2-W03] knows and understands research methods used in oceanography and related sciences	knows and understands complex research issues related to direct underwater research			[SW2] presentation/project/paper/report [SW5] implementation of a problem task			

Subject contents	<p>Preparation for underwater observations. Safety rules, equipment description.</p> <p>Tools used during underwater observations. Independently adapt tools suitable for specific observations and environmental work.</p> <p>Design of underwater observation tools depending on the planned research. Independent design and manufacture of tools for underwater observations.</p> <p>Practical application of the analysis of groups of organisms. Determination of species composition, abundance and degree of surface cover on the basis of independently collected samples from the environment.</p>								
Prerequisites and co-requisites									
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="454 555 794 589">Subject passing criteria</th> <th data-bbox="794 555 1142 589">Passing threshold</th> <th data-bbox="1142 555 1482 589">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 593 794 640">assessment of the correctness of the tasks performed</td> <td data-bbox="794 593 1142 640">51.0%</td> <td data-bbox="1142 593 1482 640">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	assessment of the correctness of the tasks performed	51.0%	100.0%
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assessment of the correctness of the tasks performed	51.0%	100.0%							
Recommended reading	Basic literature	<p>Cappo, M., Brown, I.W., 1996, Evaluation of sampling methods for reef fish populations or commercial and recreational interest, CCR Reef Research Centre, Technical Report No.6, Townsville, CCR Reef Research Centre, 72 s.</p> <p>Zale, A. V., Parrish, D.L., Sutton T.M. (red.), 2012, Fisheries techniques, third edition. American Fisheries Society, Bethesda, Maryland</p> <p>Labrosse, P., Kulbicki M., Ferraris J., 2002, Underwater Visual Fish Census Surveys. Proper use and implementation</p> <p>English, S., Wilkinson, C., Baker, V. (red.), 1997, Survey Manual for Tropical Marine Resources, Australian Institute of Marine Science, Townsville, Queensland, Australia</p> <p>Coyer, J., Witman, J., 1990, The underwater catalog. A guide to methods in underwater research. Shoals Marine Laboratory, Cornell University, Ithaca, New York</p> <p>Lang, M.A., Baldwin, C.C. (red), 1996, Methods and Techniques of Underwater Research. Proceedings of the American Academy of Underwater Sciences, Scientific Diving Symposium, October 12-13, 1996, Smithsonian Institution, Washington DC, 236</p>							
	Supplementary literature	<p>Samsel, J., Podwodny świat. Obserwacje przyrodnicze, e-book</p> <p>Samoilys, M. (red.), 1997, Manual for Assessing Fish Stocks on Pacific Coral Reefs. Department of Primary Industries, GPO Box 46, Brisbane Qld 4001, Australia</p>							
	eResources addresses	Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed									
Work placement	Not applicable								

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