

Subject card

Subject name and code	Basics of scientific diving - introduction to the scientific diver course, PG_00121055						
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	4		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Ichthyology -> Department of Marine Ecology -> Faculty of Oceanography and Geography -> Rector						
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-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		
	[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		

Subject contents	Preparation for underwater observations. Safety rules, equipment description.		
	Tools used during underwater observations. Independently adapt tools suitable for specific observations and environmental work.		
	Design of underwater observation tools depending on the planned research. Independent design and manufacture of tools for underwater observations.		
	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.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	assessment of the correctness of the tasks performed	51.0%	100.0%
Recommended reading	Basic literature	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.	
		Zale, A. V., Parrish, D.L., Sutton T.M. (red.), 2012, Fisheries techniques, third edition. American Fisheries Society, Bethesda, Maryland	
		Labrosse, P., Kulbicki M., Ferraris J., 2002, Underwater Visual Fish Census Surveys. Proper use and implementation	
		English, S., Wilkinson, C., Baker, V. (red.), 1997, Survey Manual for Tropical Marine Resources, Australian Institute of Marine Science, Townsville, Queensland, Australia	
		Coyer, J., Witman, J., 1990, The underwater catalog. A guide to methods In underwater research. Shoals Marine Laboratory, Cornell University, Ithaca, New York	
		Lang, M.A., Baldwin, C.C. (red), 1996, Methods and Techniques of Underwater Research. Proceedings of the Americam Academy of Underwater Sciences, Scientific Diving Symposium, October 12-13, 1996, Smithsonian Institution, Washington DC, 236	
	Supplementary literature	Samsel, J., Podwodny świat. Obserwacje przyrodnicze, e-book	
		Samoilys, M. (red.), 1997, Manual for Assessing Fish Stocks on Pacific Coral Reefs. Department of Primary Industries, GPO Box 46, Brisbane Qld 4001, Australia	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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