University of Gdańsk

Subject card

Subject name and code	Basics of Scientific Diving - Introduction to the Scientific Diver Course - laboratory, PG_00204949		
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	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, prof. UG	
	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	1.0	9.0	25

Subject objectives

Familiarization with the basics of observation methods and underwater documentation

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OCEANMU2-W03] has an in-depth understanding of research methods used in oceanography and related sciences, and interprets their mechanisms and interrelationships across different spatial and temporal scales	knows and understands complex research issues related to direct underwater research	[SW2] presentation/project/paper/ report [SW5] implementation of a problem task
[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;	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

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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