

**Subject card**

<b>Subject name and code</b>	Basics of Scientific Diving - Introduction to the Scientific Diver Course - laboratory, PG_00204949						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Master's studies	<b>Subject group</b>			Obligatory subject group in the field of study Optional subject group		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	4	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Laboratory of Ichthyology -> Department of Marine Ecology -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. Mariusz Sapota				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		1.0		9.0	25
<b>Subject objectives</b>	Familiarization with the basics of observation methods and underwater documentation						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>		<b>Method of verification</b>		
	[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		
	[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		

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="456 557 794 589">Subject passing criteria</th> <th data-bbox="798 557 1141 589">Passing threshold</th> <th data-bbox="1144 557 1479 589">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 593 794 645">assessment of the correctness of the tasks performed</td> <td data-bbox="798 593 1141 645">51.0%</td> <td data-bbox="1144 593 1479 645">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	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>Cappo, M., Brown, I.W., 1996, Evaluation of sampling methods for reef fish populations of 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> <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>							
Example issues/ example questions/ tasks being completed									
Work placement	Not applicable								

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