

Subject card

Subject name and code	Introduction to marine mammals biology and protection - lecture, PG_00118091						
Field of study	Oceanography						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2026/2027	
Education level	undergraduate studies	Subject group					
Mode of study	full-time studies	Mode of delivery				at the university	
Year of study	3	Language of instruction				Polish	
Semester of study	6	ECTS credits				1.0	
Learning profile	academic	Assessment form					
Conducting unit	Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Iwona Pawliczka Vel Pawlik				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	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		7.0		8.0	30
Subject objectives	Learning the basics of systematics and biological characteristics in terms of life needs and the role of marine mammals in the functioning of the marine ecosystem. Getting to know the basics of knowledge about species and habitat protection of marine mammals, with particular emphasis on the Baltic Sea. Learning about modern research methods and the importance of research in conservation.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	OCEANL3-W01		the student knows and understands the terminology on biology and conservation of marine mammals at advanced level			[SW4] test/exam - oral or written	
	OCEANL3-U01		the student is able to use current scientific terminology in presentations and discussing problems related to the biology and protection of marine mammals			[SU4] test/exam - oral or written	
	OCEANL3-W06		the student knows and understands potential threats to marine mammals and methods of their mitigation, knows and understands the basic legal regulations and principles regarding protection of marine mammals			[SW4] test/exam - oral or written	
	OCEANL3-W04		the student knows basic research techniques and methods at an advanced level regarding marine mammals			[SW4] test/exam - oral or written	

Subject contents	<p>Basics of systematics and phylogeny of marine mammals Basics of biology and ecophysiology of marine mammals. Adaptations to life in an aquatic environment. Characterization and assessment of the population status of Baltic marine mammal species Threats to marine mammals and methods of reducing them. The role of the individual and science in the conservation of marine mammals.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	oral statement	51.0%	100.0%
Recommended reading	Basic literature	<p>HELCOM Working Group on Marine Mammals (HELCOM MaMa) - reports (online)</p> <p>IUCN Red List of Marine Mammals</p> <p>Jefferson, T., Webber, M.A., Pitman, R. 2015. Marine Mammals of the World. A Comprehensive Guide to Their Identification. Academic Press.</p> <p>The Society of Marine Mammals, Committee on Taxonomy, List of Marine Mammal Species and Subspecies (online)</p> <p>Gójska, A., Pawliczka, I., Pawlaczyk, P. 2015. National Plan of Harbour Porpoise Protection. Ministerstwo Środowiska.</p>	
	Supplementary literature	<p>Skóra, K.E., Kuklik, I. 2003. Bycatch as a potential threat to harbour porpoises (<i>Phocoena phocoena</i>) in Polish Baltic waters. NAMCCO Scientific Publications 5: 303-315</p> <p>Read A.J., 2000. Potential Mitigation Measures for Reducing the Bycatches of Small Cetaceans in ASCOBANS Waters. Report to ASCOBANS, December 27th, 2000; 34</p> <p>Pawliczka, I. 2009. Czynna ochrona fok i morświnów w Polsce. W: Bobek, B., Mikoś, J., Wasilewski, R. (red) Gospodarka łowiecka i ochrona dzikich zwierząt na Pomorzu Gdańskim. Polskie Towarzystwo Leśne. Regionalna Dyrekcja Lasów Państwowych w Gdańsku. Gdańsk: 241-260</p> <p>Harding, K.C., Härkönen, T., Helander, B. And Karlsson, O. 2007. Status of Baltic grey seals: Population assessment and extinction risk. NAMMCO Sci. Publ. 6: 33-56</p> <p>Bergman, A. and Olsson, M. 1985. Pathology of Baltic grey seal and ringed seal females with special reference to adrenocortical hyperplasia: Is environmental pollution the cause of a widely distributed disease syndrome ? Finn. Game Res. 44: 47-62</p>	
	eResources addresses	<p>Podstawowe</p> <p>https://marinemammalscience.org - list of current names of marine mammal systematic units and description of species</p> <p>https://helcom.fi/helcom-at-work/groups/biodiv/eg-mama/ - current knowledge and conservation status of Baltic marine mammals</p> <p>Adresy na platformie eNauczanie:</p>	

Example issues/ example questions/ tasks being completed	Physiological adaptations of marine mammals to life in water. History of the Baltic gray seal population. Harbor porpoise habitats in Polish marine areas based on hydroacoustic studies. The importance of NATURA2000 areas in the conservation of marine mammals. Threats to cetaceans and ways of mitigating them. Underwater noise and marine mammals.
Work placement	Not applicable

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