

Subject card

Subject name and code	Introduction to seabed morphometry - lecture, PG_00054228						
Field of study	Oceanography						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	postgraduate studies	Subject group			Obligatory subject group in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			2.0		
Learning profile	academic	Assessment form					
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Radosław Wróblewski				
	Teachers		dr Radosław Wróblewski				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30	15.0	15.0	60		
Subject objectives	Recognition and understanding of methods of bathymetric data processing and quantitative and qualitative description of seabed morphometry.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[OCEANMU2-W03] knows and understands research methods used in oceanography and related sciences	Is able to use research methods used in oceanography.			[SW1] oral statement/ conversation/discussion		
	[OCEANMU2-W05] knows and understands the principles of planning and conducting field and laboratory research as well as advanced methods and tools of scientific research, especially in the field of the studied specialty	Is able to use research methods used in oceanography.			[SW1] oral statement/ conversation/discussion		
	[OCEANMU2-W02] knows and understands complex processes and phenomena occurring in the marine environment, with particular emphasis on the coastal zone, as well as complex relationships between living and non-living elements of the aquatic environment	Is proficient in oceanographic issues, including marine coastal zone processes			[SW1] oral statement/ conversation/discussion		
	[OCEANMU2-W01] knows and understands in-depth specialized terminology used in oceanography and related sciences (in Polish and a selected foreign language)	Understands processes in the sea and coastal zone			[SW1] oral statement/ conversation/discussion		

Subject contents	<p>Morphometry as a tool and a scientific sub-discipline. Methodology of bathymetric measurements. Bathymetric data interpolation methods. Uneven bottom surface - Numerical Terrain Model. Morphometric description and morphometric parameters. Seabed relief forms. Elements of statistical analysis of morphometric relief forms. Software used in morphometry. Classification of morphological features of bottom surface and bottom sediments. Morphometric reconstruction of bottom-forming processes - a case study.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written exam with open questions (tasks)	51.0%	100.0%
Recommended reading	Basic literature	<p>Lucieer, V.L., Lecours, V., Dolan, M.F.J. (eds) 2019. Marine Geomorphometry. MDPI Basel, Switzerland. Hengl, T., Reuter, H.I. (eds) 2008. Geomorphometry: Concepts, Software, Applications. Developments in Soil Science, vol. 33, Elsevier, 772 pp. Harris, P.T., Baker, E.K. (eds) 2012. Seafloor Geomorphology as Benthic Habitat. GeoHAB Atlas of Seafloor Geomorphic Features and Benthic Habitats. Elsevier, 900 pp.</p>	
	Supplementary literature	<p>Medwin H. and Clay C. S., 1998. Fundamentals of Acoustical Oceanography. Academic Press, Boston, 712. Medwin H., 2005. Sounds in the Sea. From Ocean Acoustics to Acoustical Oceanography. Cambridge University Press, New York, 643.</p>	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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