

Subject card

Subject name and code	Micropaleontology - lecture, PG_00091114						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's 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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Marine Geology -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Patrycja Jernas				
	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		5.0		20.0	40
Subject objectives	Application of knowledge (stratigraphic range, mode of life, environmental preferences) of common groups of microfossils in stratigraphy and geological paleoenvironmental studies.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		knows and understands the terminology appropriate in the study of the paleoenvironmental research with particular consideration of marine realm		[SW4] test/exam - oral or written		
	[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods		knows and identifies micropaleontological objects, using appropriate empirical and literature methods		[SW4] test/exam - oral or written		
	[GEOLL3_W04] knows and understands phenomena and processes occurring in the past and today in the interior of the Earth and on its surface, defines the methods of how to study them		knows and understands the phenomena and processes occurring in the past and in the past and present times in the marine and terrestrial environments, defines the methods of the study on paleontological bioindicators		[SW4] test/exam - oral or written		
	[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations		can identify micropaleontological objects by linking them to geological and climatic processes and anthropogenic environmental transformations		[SU4] test/exam - oral or written		

Subject contents	Introduction to micropaleontology: main groups of microfossils, methodology and preparation techniques .		
	Tafonomy and quality of the micropaleontological record.		
	Overview of the main groups of microfossils.		
	Biom mineralization and use of geochemical indicators of organogenic origin.		
	Applied micropaleontology: biostratigraphy, paleoenvironmental and paleoclimatic reconstructions, petroleum exploration.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final test	51.0%	100.0%
Recommended reading	Basic literature	• Czubla P., Mizerski W., Świerczewska-Gładysz, 2018. Przewodnik do ćwiczeń z geologii. Wydawnictwo Naukowe PWN, • Lahmann U., Hillmer G., 1991. Bezkręgowce kopalne. Wydawnictwa Geologiczne, • Franciszek Bieda, 1966: Paleozoologia, tom I, Część ogólna zwierzęta bezkręgowce. Wydawnictwa Geologiczne, • Pratul Kumar Saraswati, M.S. Srinivasan, 2015. Micropaleontology: Principles and Applications. Publisher: Springer International Publishing, • Haq B.U., Boersma A., 1998. Introduction to Marine Micropaleontology. Publisher: Elsevier, • Howard Armstrong, Martin Brasier, 1980, 2013. Microfossils. Publisher: Wiley-Blackwell	
	Supplementary literature	• Hillaire-Marcel C.,de Vernal A., 2007. Proxies in late cenozoic paleoceanography. Developments in Marine Geology, Volume 1, Publisher: Elsevier, • Hammer Ø., Harper D. A.T., 2005. Paleontological Data Analysis. Publisher: Blackwell, • Scott, D. B., Medioli, F. S., Schafer, C. T, 2001. Monitoring in Coastal Environments Using Foraminifera and Thecamoebian Indicators. Publisher: Cambridge University Press, • Robert Wynn Jones, 2013. Foraminifera and their Applications. Publisher: Cambridge University Press,	
		eResources addresses	
Example issues/ example questions/ tasks being completed	A case study with examples of selected scientific papers.		
Work placement	Not applicable		

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