

**Subject card**

<b>Subject name and code</b>	Micropaleontology - lecture, PG_00091114						
<b>Field of study</b>	Geology						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2025/2026		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<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 Marine Geology -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Patrycja Jernas				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	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		5.0		20.0	40
<b>Subject objectives</b>	Application of knowledge (stratigraphic range, mode of life, environmental preferences) of common groups of microfossils in stratigraphy and geological paleoenvironmental studies.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>		<b>Method of verification</b>		
	[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		
	[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_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_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		

Subject contents	<p>Introduction to micropaleontology: main groups of microfossils, methodology and preparation techniques .</p> <p>Tafonomy and quality of the micropaleontological record.</p> <p>Overview of the main groups of microfossils.</p> <p>Biom mineralization and use of geochemical indicators of organogenic origin.</p> <p>Applied micropaleontology: biostratigraphy, paleoenvironmental and paleoclimatic reconstructions, petroleum exploration.</p>								
Prerequisites and co-requisites									
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 642 798 674">Subject passing criteria</th> <th data-bbox="802 642 1142 674">Passing threshold</th> <th data-bbox="1147 642 1487 674">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 680 798 712">final test</td> <td data-bbox="802 680 1142 712">51.0%</td> <td data-bbox="1147 680 1487 712">100.0%</td> </tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	final test	51.0%	100.0%		
Subject passing criteria	Passing threshold	Percentage of the final grade							
final test	51.0%	100.0%							
Recommended reading	<p>Basic literature</p>	<ul style="list-style-type: none"> <li>• Czubla P., Mizerski W., Świerczewska-Gładysz, 2018. Przewodnik do ćwiczeń z geologii. Wydawnictwo Naukowe PWN,</li> <li>• Lahmann U., Hillmer G., 1991. Bezkęgowce kopalne. Wydawnictwa Geologiczne,</li> <li>• Franciszek Bieda, 1966: Paleozoologia, tom I, Część ogólna zwierzęta bezkręgowce. Wydawnictwa Geologiczne,</li> <li>• Pratul Kumar Saraswati, M.S. Srinivasan, 2015. Micropaleontology: Principles and Applications. Publisher: Springer International Publishing,</li> <li>• Haq B.U., Boersma A., 1998. Introduction to Marine Micropaleontology. Publisher: Elsevier,</li> <li>• Howard Armstrong, Martin Brasier, 1980, 2013. Microfossils. Publisher: Wiley-Blackwell</li> </ul>							
	<p>Supplementary literature</p>	<ul style="list-style-type: none"> <li>• Hillaire-Marcel C., de Vernal A., 2007. Proxies in late cenozoic paleoceanography. Developments in Marine Geology, Volume 1, Publisher: Elsevier,</li> <li>• Hammer Ø., Harper D. A.T., 2005. Paleontological Data Analysis. Publisher: Blackwell,</li> <li>• Scott, D. B., Medioli, F. S., Schafer, C. T, 2001. Monitoring in Coastal Environments Using Foraminifera and Thecamoebian Indicators. Publisher: Cambridge University Press,</li> <li>• Robert Wynn Jones, 2013. Foraminifera and their Applications. Publisher: Cambridge University Press,</li> </ul>							
	<p>eResources addresses</p>								
Example issues/ example questions/ tasks being completed	<p>A case study with examples of selected scientific papers.</p>								
Work placement	<p>Not applicable</p>								

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