

Subject card

Subject name and code	Micropaleontology - exercises, PG_00091115						
Field of study	Geology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
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	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Additional information: Laboratory exercises						
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	Ability to analyze microscopically and identify basic groups of microfossils. Ability to analyze and interpret micropaleontological data, using dedicated statistical analysis and software, in biostratigraphic and paleoenvironmental studies.						
Learning outcomes	Course outcome	Subject outcome		Method of verification			
	[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,		[SU2] presentation/project/paper/report [SU8] observation of student's independent or team work			
	[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 present times in marine and terrestrial environments, defines methods of research in paleontological bioindicators studies		[SW2] presentation/project/paper/report			
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences	knows and understands the terminology appropriate in the paleoenvironmental studies with particular consideration of the marine realm		[SW2] presentation/project/paper/report			
	[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods	knows and identifies micropaleontological objects by using appropriate empirical and literature methods		[SW2] presentation/project/paper/report			

Subject contents	<p>Identification of the common microfossils.</p> <p>Biostratigraphy based on microfossils. Application of the PAST program.</p> <p>Data analysis and statistical methods in paleoenvironmental research.</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 546 794 577">Subject passing criteria</th> <th data-bbox="799 546 1137 577">Passing threshold</th> <th data-bbox="1142 546 1481 577">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 580 794 611">report I</td> <td data-bbox="799 580 1137 611">51.0%</td> <td data-bbox="1142 580 1481 611">50.0%</td> </tr> <tr> <td data-bbox="456 613 794 645">report II</td> <td data-bbox="799 613 1137 645">51.0%</td> <td data-bbox="1142 613 1481 645">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	report I	51.0%	50.0%	report II	51.0%	50.0%
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report I	51.0%	50.0%										
report II	51.0%	50.0%										
Recommended reading	Basic literature	<ul style="list-style-type: none"> Czubla P., Mizerski W., Świerczewska-Gładysz, 2018. Przewodnik do ćwiczeń z geologii. Wydawnictwo Naukowe PWN, 										
	Supplementary literature	<ul style="list-style-type: none"> Hammer, Ø., Harper, D.A.T., Ryan, P.D. 2001. PAST: Paleontological statistics software package for education and data analysis. Palaeontologia Electronica 4(1): 9pp. 										
	eResources addresses	<p>Basic</p> <p>https://folk.uio.no/ohammer/past/ - software PAST</p> <p>https://engineering.purdue.edu/Stratigraphy/tscreator/download/download.php - Manuals for TimeScale Creator use, and for making TSC datapacks.2012</p>										
Example issues/ example questions/ tasks being completed	Microscopic analysis of foraminifera and ostracoda fauna from the North Atlantic region in environmental studies and paleoenvironmental reconstructions.											
Work placement	Not applicable											

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