University of Gdańsk

Subject card

Subject name and code	Paleontology - exercises, PG_00091104		
Field of study	Geology		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
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	1	Language of instruction	Polish
Semester of study	2	ECTS credits	3.0
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 hab. Małgorzata Witak	
	Teachers	dr hab. Małgorzata Witak	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	30.0	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	30.0	30.0	90

Subject objectives

Ability to macroscopically identify fossils of invertebrate fauna and Carboniferous flora

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 specific to palaeontology	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods	knows and identifies palaeontological objects using appropriate macroscopic methods	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[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 mechanisms of plant and animal evolution in the Phanerozoic	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
[GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented	has the ability to reason analytically and synthetically in the field of paleontology leading to correct inferences about the evolution of animals and plants	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
[GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations	is able to identify palaeontological objects and link them to their habitat	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written

Subject contents

Process of fossilisation, fossil preservation states, fossil organic assemblages. Identification of the main representatives of marine invertebrate fossils (sponges, brachiopods, trilobites, gastropods, bivalves, cephalopods, lilyfish,
sea urchins, graptolites) and Carboniferous flora.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>colloquium I</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>colloquium II</td><td>51.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Radwańska U., 1999. Przewodnik do ćwiczeń z paleontologii, Wyd. Naukowe INVIT, Warszawa</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Lehmann U., Killmer G., 1991. Bezkręgowce kopalne, Wyd. Geologiczne, Warszawa

Dzik J., 1997. Dzieje życia na Ziemi, Wyd. Naukowe PWN, Warszawa
Raup D.M., Stanley S.M., 1984. Podstawy paleontologii, Wyd. Naukowe PWN, Warszawa
Stanley S.M., 2002. Historia Ziemi, Wyd. Naukowe PWN, Warszawa
McAlester A.L., 1979. Historia życia. Biblioteka Nauk o Ziemi, Wyd. Naukowe PWN, Warszawa</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">1 Explain the phylogenetic development of ammonites

2. Discuss the importance of trilobites to the life sciences

3. Characterise the main groups of land plants in the Silurian, Devonian and Carboniferous</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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