University of Gdańsk

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | The Basics of Paleontology - laboratory , PG_00206141 | | |
| Field of study | Oceanography | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | 2027/2028 |
| 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 | 2.0 |
| 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, prof. UG | |
| | Teachers | | |

**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

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 | 30 | 2.0 | 18.0 | 50 |

**Subject objectives**

Ability to macroscopically identify faunal fossils.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [OCEANL3-U12] is able to systematically expand and update oceanographic knowledge and enhance professional qualifications | is able to systematically extend and update his/her palaeontological knowledge and improve professional qualifications | [SU4] test/exam - oral or written |
| [OCEANL3-U03] is able to process, describe, and present results, and draw conclusions | can identify selected types of marine invertebrates | [SU4] test/exam - oral or written |
| [OCEANL3-W02] has a broad knowledge and understanding of physical, biological, chemical, and geological processes and phenomena occurring in aquatic environments, with particular emphasis on the marine environment | knows and understands the basic physical, biological, chemical and geological processes and phenomena occurring in the aquatic environment, with particular reference to the marine palaeoenvironment, and explains the mechanism of evolution of selected groups of marine invertebrates | [SW4] test/exam - oral or written |
| [OCEANL3-W01] has an advanced knowledge and understanding of the terminology used in oceanography and related exact and natural sciences (in Polish and a selected foreign language) | has an advanced knowledge and understanding of the terminology used in palaeontology | [SW4] test/exam - oral or written |
| [OCEANL3-U06] is able to formulate and solve advanced problems related to the functioning of individual components of the marine environment, using knowledge from various fields and scientific disciplines | is able to define the basic relationships concerning the functioning of the different components of the marine palaeoenvironment and the fossils associated with it | [SU4] test/exam - oral or written |
| [OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression | is able to use current scientific terminology in a variety of forms of expression in the field of paleontology | [SU4] test/exam - oral or written |

**Subject contents**

Identification of the main representatives of marine invertebrate fossils (sponges, brachiopods, trilobites, gastropods, bivalves, cephalopods, lilyfish, sea urchins, graptolites)

**Prerequisites and co-requisites**

**Assessment methods and criteria**

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| Test II | 51.0% | 50.0% |
| Test I | 51.0% | 50.0% |

**Recommended reading**

| | |
|---|---|
| Basic literature | Radwańska U., 1999. Przewodnik do ćwiczeń z paleontologii, Wyd. Naukowe INVIT, Warszawa<br><br>Witak M., 2015. Elementy paleontologii. [w:] Witak M. et al 2015. Podstawy paleontologii. Wyd. UG, Gdańsk |
| Supplementary literature | Lehmann U., Killmer G., 1991. Bezkręgowce kopalne, Wyd. Geologiczne, Warszawa<br><br>Dzik J., 1997. Dzieje życia na Ziemi, Wyd. Naukowe PWN, Warszawa<br>Raup D.M., Stanley S.M., 1984. Podstawy paleontologii, Wyd. Naukowe PWN, Warszawa<br>Stanley S.M., 2002. Historia Ziemi, Wyd. Naukowe PWN, Warszawa |
| eResources addresses | |

**Example issues/ example questions/ tasks being completed**

1. Describe the developmental trends of graptolites

2. Identify the major guide fossils in the Mesozoic

3. Identify fossils of rock-forming and palaeoecological importance in the late Palaeozoic

**Work placement**

Not applicable

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