University of Gdańsk

Subject card

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| Subject name and code | Copy Physical geology - laboratory exercises, PG_00054232 | | |
| Field of study | Oceanography | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | 2024/2025 |
| Education level | undergraduate 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 | 1 | ECTS credits | 3.0 |
| Learning profile | academic | Assessment form | |
| Conducting unit | Pracownia Geologii Morza -> Katedra Oceanografii Chemicznej i Geologii Morza -> Faculty of Oceanography and Geography | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Patrycja Jernas | |
| | Teachers | dr Patrycja Jernas<br>dr Angelika Szmytkiewicz<br>dr inż. Piotr Szmytkiewicz | |

| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|---|
| | Number of study hours | 0.0 | 0.0 | 35.0 | 0.0 | 0.0 | 35 |
| | E-learning hours included: 0.0 | | | | | | |
| | Additional information:<br>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 | 35 | 25.0 | 30.0 | 90 |

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| Subject objectives | Ability to macroscopically identify minerals, rocks and fossils. |

## Learning outcomes

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| OCEANL3-W01 | To an advanced degree, knows and understands the terminology specific to physical geology (curriculum content:B.1-6) | [SW4] test/exam - oral or written |
| OCEANL3-U03 | Is able to identify minerals, rocks and fossils and concludes about their genesis (content curriculum: (B.1-6) | [SU4] test/exam - oral or written |
| OCEANL3-U12 | Is able to systematically expand and update knowledge in the field of physical geology and improve professional qualifications (curriculum content: B.1-6) | [SU8] observation of student's independent or team work |
| [OCEANL3-K04] is willing to constantly deepen knowledge in the field of oceanography and improve professional qualifications, supported by the knowledge of experts | Is ready to continuously deepen the knowledge of physical geology and to improve professional qualifications, to be supported by the knowledge of experts (content of the curriculum: B.1-6) | [SK8] observation of student's independent or team work |
| OCEANL3-W02 | Knows and understands the basic physical, biological, chemical and geological processes and phenomena occurring in the aquatic environment, with taking into account endo- and exogenous processes (curriculum content: B. 1-6) | [SW4] test/exam - oral or written |
| OCEANL3-U01 | Is able to use the current scientific terminology in various forms of expression in the field of physical geology (curriculum content: (B. 1-6) | [SU4] test/exam - oral or written |

## Subject contents

B. Subjects of the exercises

B.1 Basics of mineralogy

B.2. Overview of minerals and their identification based on macroscopic features

B.3. Criteria for petrographic classifications

B.4. Overview of the most important rocks and their characteristics (mineral composition, rock structures and textures)

B.5. Basic concepts of paleontology

B.6. Overview of basic groups of index and rock-forming fossils

## Prerequisites and co-requisites

## Assessment methods and criteria

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

<table>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>A. Literature required for final course credit:<br><br>A.1. used during classes<br><br>• Książkiewicz M., 1979. Geologia dynamiczna. Wyd. Geologiczne, Warszawa<br>• Witak M., Pruszkowska-Caceres M., Szymczak E., 2015. Podstawy geologii. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk<br>• Jaroszewski W. (red.) 1986. Przewodnik do ćwiczeń z geologii dynamicznej. Wyd. Geologiczne, Warszawa<br>• Mizerski W., 2010. Geologia dynamiczna, Wydawnictwo Naukowe PWN, Warszawa<br>• Czubla P., Mizerski W., Świerczewska-Gładysz, 2005, Przewodnik do ćwiczeń z geologii, Wydawnictwo Naukowe PWN,Warszawa<br><br>A.2. studied independently by the student<br><br>• Allen P.A., 2000. Procesy kształtujące powierzchnię Ziemi, Wydawnictwo Naukowe PWN, Warszawa<br>• Jaroszewski W. (red.) 1985. Słownik geologii dynamicznej. Wyd. Geol., Warszawa<br>• Skoczylas J. 1996. Budowa Ziemi. Wielka Encyklopedia Geografii Świata t. II, Wydawnictwo Kurpisz, Poznań<br>• Witt. A., Borówka K.R. 1997. Rzeźba powierzchni Ziemi. Wielka Encyklopedia Geografii Świata t. II, Wydawnictwo Kurpisz, Poznań</td></tr>
<tr><td>Supplementary literature</td><td>• Foster R.J. 1992. Physical geology. Wyd. Columbus. Toronto-London-Sydney.<br>• Graniczny M., Mizerski W. 2009. Katastrofy przyrodnicze. Wydawnictwo Naukowe PWN, Warszawa</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">• Genesis of minerals<br>• Physical properties of minerals<br>• Classification of rocks<br>• Systematic review of the major groups of marine invertebrates fossil</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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