University of Gdańsk

Subject card

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|---|---|---|---|
| Subject name and code | Petrographic Analysis of Marine Sediments - lecture, PG_00205300 | | |
| Field of study | Oceanography | | |
| Date of commencement of studies | October 2027 | Academic year of realisation of subject | 2029/2030 |
| Education level | Bachelor's studies | Subject group | Obligatory subject group in the field of study<br>Optional subject group<br>Subject group related to scientific research in the field of study |
| Mode of study | full-time studies | Mode of delivery | at the university |
| Year of study | 3 | Language of instruction | Polish |
| Semester of study | 6 | ECTS credits | 1.0 |
| Learning profile | academic | Assessment form | credit |
| Conducting unit | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Agnieszka Marcinowska | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 5.0 | 0.0 | 10.0 | 0.0 | 0.0 | 15 |

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 | 15 | 1.0 | 9.0 | 25 |

**Subject objectives**

The course aims to familiarize students with the methods of petrographic analysis of marine sediments, identification of sediment types and petrographic classifications.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression | is able to use the current petrographic terminology used in the descriptions of marine sediments | [SU3] text preparation/written work |
| [OCEANL3-K03] is ready to exercise caution and criticism in accepting information from scientific literature, the Internet and other media relating to natural sciences | is ready to use a critical approach in obtaining information from scientific literature, the Internet and other media relating to the petrographic analysis of marine sediments | [SK3] text preparation/written work |
| [OCEANL3-W04] has an advanced understanding of issues and research problems in oceanography, and recognizes their connection with other scientific disciplines | knows and understands at an advanced level the issues and problems related to the petrographic analysis of marine sediments | [SW3] text preparation/written work |
| [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) | knows and understands at an advanced level the terminology used in petrographic descriptions of minerals and rocks, including petrographic descriptions of marine sediments | [SW3] text preparation/written work |

**Subject contents**

Optical features of minerals
Petrographic classifications of rocks
Petrographic analysis - identification of minerals and rocks

<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>Reports</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Manecki A., Muszyński M. (red.), 2008. Przewodnik do petrografii, Uczelniane Wydawnictwa Naukowo-Dydaktyczne AGH, Kraków<br>Penkala T., 1971. Optyka kryształów, Wyd. Naukowe PWN, Warszawa<br>Borkowska M., Smulikowski K., 1973. Minerały skałotwórcze. Wyd. Geologiczne, Warszawa<br>Barker A.J., 2014. A Key for Identification of Rock-forming Minerals in Thin-Section, CRC Press/Balkema<br>Frost R.B., Frost C.D., 2014. Essentials of Igneous and Metamorphic Petrology, Cambridge University Press.<br>Boggs S., JR., 2009. Petrology of Sedimentary Rocks, Cambridge University Press<br>Klein C., Philpotts A.R., 2012. Earth Materials, Cambridge University Press</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">MacKenzie W.S., Adams A.E., Brodie K.H. 2017. Rocks and Minerals in Thin Section., CRC Press/Balkema<br>Nesse W.D., 1991. Introduction to Optical Mineralogy, Oxford University Press<br>Gill R., 2010. Igneous Rocks and Processes, a Practical Guide, A John Wiley & Sons, Ltd., Publication</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">Petrographic analysis - identification of minerals and rocks</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
</table>

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