University of Gdańsk

Subject card

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| Subject name and code | Sedimentology - lecture, PG_00199521 | | |
| 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<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 | 2 | Language of instruction | Polish |
| Semester of study | 3 | ECTS credits | 2.0 |
| Learning profile | academic | Assessment form | exam |
| Conducting unit | Department of Geophysics -> Faculty of Oceanography and Geography -> Rector | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Robert Sokołowski | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 30.0 | 0.0 | 0.0 | 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 | 2.0 | 18.0 | 50 |

**Subject objectives**

To gain a basic understanding of the subject and research methods in sedimentology, to become familiar with the main sedimentary environments.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [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 sedimentology | [SW4] 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 of sedimentology in aforementioned various forms of expression | [SU4] test/exam - oral or written |
| [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 prepared to exercise caution and criticism in accepting information from the scientific literature, the Internet and other media relating to sedimentology | [SK4] 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 | has a broad knowledge and understanding of the physical, biological, chemical and geological processes and phenomena occurring in the various sedimentary environments | [SW4] test/exam - oral or written |

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| Subject contents | Introduction: the subject of study, basic concepts<br><br>Factors controlling sedimentary processes<br><br>Glacial environment<br><br>Aeolian environment<br><br>Lake environment<br><br>Fluvial environment<br><br>Deltaic and tidal environments<br><br>Marine evaporites<br><br>Shallow Clastic Sea<br><br>Coastal Zone<br><br>Shallow-water carbonate environment<br><br>Abyssal zone<br><br>Volcanic environment<br><br>Diagenesis and post-sedimentary structures |
| Prerequisites and co-requisites | |

Assessment methods and criteria

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| Exam | 51.0% | 100.0% |

Recommended reading

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| Basic literature | Reading, H., (red.) 1996. Sedimentary environments: Processes, Facies and Stratigraphy. Blackwell Science.<br><br>Nicols G. 2009, Sedimentology and Stratigraphy. Wiley-Blackwell, pp. 419.<br><br>Demicco R.V., Bridge J.S. 2008, Earth Surface Processes, Landforms and Sediment Deposits. Cambridge University Press, pp. 815.<br><br>Stow D.A.V. 2005, Sedimentary Rocks in the Field. Manson Publishing, pp. 320.<br><br>Gradziński R., Kostecka A., Radomski A., Unrug R. 1986, Zarys Sedymentologii. Wydawnictwa Geologiczne, pp. 628.<br><br>Zieliński, T., 2014. Sedymentologia osadów rzek i jezior. Wydawnictwo Naukowe UAM. |
| Supplementary literature | Benn D.I., Evans D.J.A. 2010, Glaciers and Glaciations. Hodder Education, pp. 802. |
| eResources addresses | |

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| Example issues/ example questions/ tasks being completed | Process and sediment characteristics of a meandering river<br><br>Processes and sediments in the silicoclastic coastal environment |
| Work placement | Not applicable |

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