University of Gdańsk

# Subject card

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|---|---|---|---|
| Subject name and code | Quaternary geology - lecture, PG_00191395 | | |
| Field of study | Geology | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | 2028/2029 |
| Education level | Bachelor's studies | Subject group | Obligatory subject group in the field of study<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 | 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 | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20 |

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 | 20 | 1.0 | 29.0 | 50 |

**Subject objectives**

Understanding of geological processes in the Quaternary, chronology and genesis of geological processes, research methods, paleoclimatology, emergence and role of humans in shaping the environment in the late Quaternary

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [GEOLL3_U03] is able to use source information in Polish and English, including archival and electronic databases, in the field of geological issues | Be able to use reference information, in Polish and English, including archival and electronic databases, on Quaternary geology | [SU4] test/exam - oral or written |
| [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 phenomena and processes occurring in the Quaternary, defines methods for their research | [SW4] test/exam - oral or written |
| [GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes | Knows and understands the basic natural phenomena and explains them in relation to the geological processes taking place in the Quaternary period | [SW4] test/exam - oral or written |
| [GEOLL3_W05] knows the structure and geological development of selected regions in Poland and in the world | Knows the structure and geological development of selected regions in Poland and worldwide in the Quaternary period | [SW4] test/exam - oral or written |
| [GEOLL3_K03] is willing to exercise caution and criticism in receiving information from scientific literature, the Internet and other media related to natural sciences | Is prepared to be cautious and critical in accepting information from scientific literature, the internet and other media relating to Quaternary geology | [SK4] test/exam - oral or written |

<table>
<tr><td>Subject contents</td><td>Subject and history of research, basic concepts.<br>Stratigraphy of the Quaternary in the world and in Poland.<br>Research of marine, lacustrine sediments and ice cores.<br>Palaeoclimatology of the Quaternary.<br>The role of Pleistocene glaciations in shaping sedimentary environments.<br>Main sedimentary environments of Poland and Europe in the Quaternary.<br>Preglacial Quaternary in Europe and Poland.<br>Quaternary glacial in Europe and Poland.<br>Late Glacial and Holocene in Europe and Poland.<br>Appearance and evolution of hominids</td></tr>
<tr><td>Prerequisites<br>and co-requisites</td><td></td></tr>
<tr><td>Assessment methods<br>and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Written exam</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Stankowski, W., 1996. Wstęp do geologii kenozoiku ze szczególnym odniesieniem do terytorium Polski. Wyd. UAM, Poznań.<br>Mycielska-Dowgiałło, E. (red.) 1998. Struktury sedymentacyjne i postsedymantacyjne w osadach czwartorzędowych i ich wartość interpretacyjna.<br>WGiSR UW.<br>Mojski, J.E., 2005. Ziemie polskie w czwartorzędzie. Państwowy Instytut Gegologiczny, Warszawa.<br>Widera, M., (red.) 2009. Geologia kenozoiku Niżu Polskiego: przewodnik do ćwiczeń terenowych z geologii kenozoiku i geomorfologii. Wyd. UAM,<br>Poznań.<br>Ehlers, J., Gibbard, P.L., Hughes, P.D., (eds.) 2011. Quaternary Glaciations: Extent and Chronology. Elsevier, Amsterdam.</td></tr><tr><td>Supplementary literature</td><td>Zieliński, T., 2014. Sedymentologia. Osady rzek i jezior. Wyd. UAM, Poznań<br>Elias SA. (ed.). 2013. Encyclopedia of Quaternary Science, 3rd edition. Elsevier Science B.V., Amsterdam, Netherlands</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/<br>example questions/<br>tasks being completed</td><td>1. What are the research methods for ice cores?<br>2. What is the European Sand Belt and when did it function?</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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