

**Subject card**

|  |   |  |                                     |            |  |         |     |
|--|---|--|-------------------------------------|------------|--|---------|-----|
| <b>Subject name and code</b>                       | Introduction to cartography - exercises, PG_00091107  |  |                                     |            |  |         |     |
| <b>Field of study</b>                              | Geology   |  |                                     |            |  |         |     |
| <b>Date of commencement of studies</b>             | October 2024  | <b>Academic year of realisation of subject</b>   |                                     |            | 2024/2025                                      |         |     |
| <b>Education level</b>                             | Bachelor's studies  | <b>Subject group</b>   |                                     |            | Obligatory subject group in the field of study |         |     |
| <b>Mode of study</b>                               | full-time studies   | <b>Mode of delivery</b>  |                                     |            | at the university                              |         |     |
| <b>Year of study</b>                               | 1   | <b>Language of instruction</b>   |                                     |            | Polish   |         |     |
| <b>Semester of study</b>                           | 2   | <b>ECTS credits</b>  |                                     |            | 1.0  |         |     |
| <b>Learning profile</b>                            | academic  | <b>Assessment form</b>   |                                     |            | credit   |         |     |
| <b>Conducting unit</b>                             |   |  |                                     |            |  |         |     |
| <b>Name and surname of lecturer (lecturers)</b>    | <b>Subject supervisor</b>   |  | dr Karolina Trzcińska               |            |  |         |     |
|  | <b>Teachers</b>   |  | dr Karolina Trzcińska               |            |  |         |     |
| <b>Lesson types</b>                                | <b>Lesson type</b>  | Lecture  | Tutorial                            | Laboratory | Project  | Seminar | SUM |
|  | <b>Number of study hours</b>  | 0.0  | 0.0                                 | 15.0       | 0.0  | 0.0     | 15  |
|  | E-learning hours included: 0.0  |  |                                     |            |  |         |     |
| <b>Learning activity and number of study hours</b> | <b>Learning activity</b>  | Participation in didactic classes included in study plan   | Participation in consultation hours | Self-study | SUM  |         |     |
|  | <b>Number of study hours</b>  | 15   | 5.0                                 | 15.0       | 35   |         |     |
| <b>Subject objectives</b>                          | Learning the methodology of preparing maps, profiles, geological cross-sections and other cartographic studies  |  |                                     |            |  |         |     |
| <b>Learning outcomes</b>                           | <b>Course outcome</b>   | <b>Subject outcome</b>   |                                     |            | <b>Method of verification</b>                  |         |     |
|  | [GEOLL3_W03] knows and identifies paleontological, mineralogical, petrographic and structural objects using appropriate methods   | the student knows and identifies structural objects using appropriate methods appropriate for geological mapping   |                                     |            | [SW5] implementation of a problem task         |         |     |
|  | [GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations  | the student is able to identify surficial and deep geological units and link them to geological processes and anthropogenic transformations of the environment |                                     |            | [SU5] implementation of a problem task         |         |     |
|  | [GEOLL3_K03] is willing to exercise caution and criticism in receiving information from scientific literature, the Internet and other media related to natural sciences   | the student is prepared to be cautious and critical of information from a variety of sources on geological cartography   |                                     |            | [SK1] oral statement/conversation/discussion   |         |     |
|  | [GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences  | the student knows and understands the terminology appropriate to geological cartography  |                                     |            | [SW1] oral statement/conversation/discussion   |         |     |
| <b>Subject contents</b>                            | Geological layer, course and fall of a rock layer, bedrock, floor, thickness of a layer, outcrop of a rock layer. Structural horizon, intersection line, intersection modulus. Geological profile, geological cross-section, actual and apparent collapse. Representation of geological structures on geological maps and cross-sections. Borehole documentation. |  |                                     |            |  |         |     |
| <b>Prerequisites and co-requisites</b>             |   |  |                                     |            |  |         |     |

| Assessment methods and criteria                                | Subject passing criteria   | Passing threshold  | Percentage of the final grade |
|--|--|--|-------------------------------|
|  |  | Passing of all assigned coursework for a grade. Award of a final mark based on the average of the partial marks.   | 66.0%                         |
| Recommended reading  | Basic literature   | <p>Alexandrowicz S., 1959. Atlas do ćwiczeń z kartografii geologicznej, Wyd. Geologiczne, Warszawa</p> <p>Compton R. R., 1985. Geology in the field, John Wiley &amp; Sons, New York</p> <p>Koziar J., 1980. Kompas geologiczny. Technika i analiza pomiarów, Uniwersytet Wrocławski, Wrocław</p> <p>Labus M., Labus K., 2008. Podstawy geologii strukturalnej i kartografii geologicznej, Wyd. Politechniki Śląskiej, Gliwice</p> <p>Słowański W., Kotański Z., Hakenberg M., Królikowski C., Szczypa S., 1989. Kartografia geologiczna, Wyd. Geologiczne, Warszawa</p> <p>Instrukcja opracowania i wydania Szczegółowej mapy geologicznej Polski w skali 1: 50 000. 1996. PIG, Warszawa</p>  |                               |
|  | Supplementary literature   | <p>Ciołkosz A., Miszański J., Olędzki J. R., 1978. Interpretacja zdjęć lotniczych, Wyd. Naukowe PWN, Warszawa</p> <p>Floyd F., Sabins, J.R., 1987. Remote Sensing, Principles and Interpretation, W. H. Freeman and Company, New York</p> <p>Kotański Z., 1987. Geologiczna kartografia w głębna, Wyd. Geologiczne, Warszawa</p> <p>Nieć M., 1990. Geologia kopalniana, Wyd. Geologiczne, Warszawa</p> <p>Roberts J.L., 1982. Introduction to geological maps and structures, Pergamon press., Oxford</p> <p>Ozimek W., Rubinkiewicz J., Mastella L., 2007. Instrukcja Kursu Kartowania Geologicznego, Uniwersytet Warszawski</p> <p>Zydorowicz T., 1991. Interpretacja map geologicznych, Warszawa</p> <p>USTAWA z dnia 9 czerwca 2011r. Prawo geologiczne i górnicze</p> |                               |
|  | eResources addresses   |  |                               |
| Example issues/<br>example questions/<br>tasks being completed | Planissection and intersection of a rock layer with specified parameters |  |                               |
| Work placement   | Not applicable   |  |                               |

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