

## Subject card

|                                             |                                                                                                                                                                                      |                                                          |                                                                                      |                                     |                                                |            |     |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|------------|-----|
| Subject name and code                       | Geomorphology - exercises, PG_00158154                                                                                                                                               |                                                          |                                                                                      |                                     |                                                |            |     |
| Field of study                              | Geology                                                                                                                                                                              |                                                          |                                                                                      |                                     |                                                |            |     |
| 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                             | Katedra Geofizyki -> Faculty of Oceanography and Geography                                                                                                                           |                                                          |                                                                                      |                                     |                                                |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                   |                                                          | dr Karolina Trzcińska                                                                |                                     |                                                |            |     |
|                                             | Teachers                                                                                                                                                                             |                                                          | dr Karolina Trzcińska                                                                |                                     |                                                |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                          | Lecture                                                  | Tutorial                                                                             | Laboratory                          | Project                                        | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                | 0.0                                                      | 0.0                                                                                  | 30.0                                | 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                                                       |                                                                                      | 10.0                                |                                                | 50.0       | 90  |
| Subject objectives                          | Learn the main research methods used in geomorphology. To understand the general laws of genesis and evolution of relief forms of the Earth's surface.                               |                                                          |                                                                                      |                                     |                                                |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                       |                                                          | Subject outcome                                                                      |                                     | Method of verification                         |            |     |
|                                             | [GEOLL3_U06] is able to identify geological objects and combine them with geological processes and anthropogenic environmental transformations                                       |                                                          | knows the geomorphological processes and forms that shape the Earth's surface        |                                     | [SU1] oral statement/conversation/discussion   |            |     |
|                                             | [GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented                            |                                                          | accurately draws conclusions about observed geomorphological phenomena and processes |                                     | [SU1] oral statement/conversation/discussion   |            |     |
|                                             | [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 |                                                          | correctly apply research methods in geomorphological research                        |                                     | [SW1] oral statement/conversation/discussion   |            |     |
|                                             | [GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences                                                                                       |                                                          | correctly uses geomorphological terminology                                          |                                     | [SW1] oral statement/conversation/discussion   |            |     |

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|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Subject contents                                               | Research methods used in geomorphology.Sources of geomorphological data.Geomorphological processes and forms (working with map and archival data - mass movements, glacial form processes, eolian processes and forms, fluvial processes and forms, human impact on relief and geomorphological processes).Creating thematic maps related to geomorphology.Geomorphological analysis - preparation of a report. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |
| Prerequisites and co-requisites                                |                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                        | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Percentage of the final grade |
|                                                                | colloquium                                                                                                                                                                                                                                                                                                                                                                                                      | 50.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50.0%                         |
|                                                                | coursework                                                                                                                                                                                                                                                                                                                                                                                                      | 50.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50.0%                         |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                | Allen P. A., 2000, Procesy kształtujące powierzchnię Ziemi, PWN, W-wa.Embleton C., Thornes J., 1985, Geomorfologia dynamiczna, PWN, Warszawa: 95-157, 368-394.Jania J., 1993, Glacjologia, PWN, W-wa: 26-52, 67-73, 77-83, 269-332.Klimaszewski M., 1978, Geomorfologia, PWN W-wa.Lindner L. red., 1992, Czwartorzęd, Wyd. PAE, W-wa.Mannion A. M., 2001, Zmiany środowiska Ziemi, PWN, W-wa.Migoń P., 2006, Geomorfologia, PWN, W-wa.Mycielska-Dowgiałło E. i Rutkowski J. red., 2007, Badania cech teksturalnych osadów czwartorzędowych..., Wyd SWPR, W-wa.Rachocki A., 2002, Podstawy geomorfologii, Wyd. Akad. Bydg., Bydgoszcz.Rychling A. (red.), 1993, Metody szczegółowych badań geografii fizycznej, PWN, W-wa.Starkel L., 2008, Typy i kierunki współczesnych przekształceń rzeźby Polski . W: Starkel L., Kostrzewski A., Kotarba A., Krzemień K. red., Współczesne przemiany rzeźby Polski, IGiGP UJ, Kraków: 385-395.Stankowski W., 1996, Wstęp do geologii kenozoiku, UAM Poznań: 126134.Tobolski K., 2000, Przewodnik do oznaczania torfów i osadów jeziornych, PWN, W-wa. |                               |
|                                                                | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                        | Mycielska-Dowgiałło E. i Rutkowski J. red., 2007, Badania cech teksturalnych osadów czwartorzędowych..., Wyd SWPR, W-wa.Rychling A. (red.), 2006, Geograficzne badania środowiska przyrodniczego, PWN, Warszawa.Rychling A. (red.), 1993, Metody szczegółowych badań geografii fizycznej, PWN, Warszawa.Stankowski W., 1996, Wstęp do geologii kenozoiku, UAM Poznań.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |
|                                                                | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                            | Adresy na platformie eNauczanie:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |
| Example issues/<br>example questions/<br>tasks being completed | The main glacial landform features of northern Poland.<br><br>Human impact on the marine coastal zone.<br><br>Landslide processes and the human economy.                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |
| Work placement                                                 | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |

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