University of Gdańsk

Subject card

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Subject name and code | Geoecology - wykład, PG_00119864 | | | | | | |
| Field of study | Geography | | | | | | |
| Date of commencement of studies | October 2024 | | Academic year of realisation of subject | 2025/2026 | | | |
| Education level | undergraduate 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 | 2 | | Language of instruction | Polish | | | |
| Semester of study | 4 | | ECTS credits | 1.0 | | | |
| Learning profile | academic | | Assessment form | | | | |
| Conducting unit | Zakład Badań Krajobrazu i Kształtowania Środowiska -> Instytut Geografii Społ-Ekon i Gospodarki Przestrzennej -> Faculty of Social Sciences | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. Mariusz Kistowski | | | | |
| | 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 | | 7.0 | 8.0 | 35 | |
| Subject objectives | Learning about the horizontal and vertical material structure of the natural environment, the main features of the landscape. Functioning of the environment - the processes of matter circulation and the impact on the differentiation of subordinate components. Learning about the measures and methods of analysis of the structure of the landscape and the relationship between its elements, the functioning of natural systems.Ability to assess the interrelationships between abiotic and biotic components of the environment, the use of acquired knowledge for the rational management of humans in space. | | | | | | |

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [GEOGRL3-U08] use scientific language and express themselves and discuss topics concerning geographic issues in Polish and in a foreign language | analyzes the causes and course of basic processes and phenomena occurring in the geographical environment | [SU4] test/exam - oral or written |
| [GEOGRL3-U05] find and select the necessary information from professional literature and other sources, including electronic sources | draws correct conclusions on the basis of data from various sources, including cartographic sources, analyzes and organizes theoretical knowledge theoretical knowledge of geographical sciences and available sources of information to correctly interpret basic natural processes and phenomena. | [SU4] test/exam - oral or written |
| [GEOGRL3-W05] Has advanced knowledge of the environment Earth's geographic environment, understood as a unified system of interrelated and interacting each other's components; its diversity, functioning and dynamics of change, including the mutual interaction of environmental components in the area of South Baltic Coastal and Lake Districts | Recognizes and names the basic information about the geographic environment of the Earth, understood as a unified system of interrelated and interacting components, and distinguishes the basic interactions between the natural and anthropogenic environment | [SW4] test/exam - oral or written |
| [GEOGRL3-W06] interactions between the natural and anthropogenic environment at different spatial and temporal scales, in particular the processes and phenomena occurring in the area of the South Baltic Coastal and Lake District and the determinants of these interactions | identifies the basic processes and phenomena occurring in the natural environment of the Earth, and in their interpretation relies on empirical foundations, understanding the importance and application of qualitative, mathematical and statistical | [SW4] test/exam - oral or written |

**Subject contents**

1. Geoecology as a scientific discipline - history of development, relations with other sciences,
2. Concepts and terminology, the main features of the natural environment and landscape research carried out in the stream of geoecology
3. Horizontal structure of the natural environment - measures and methods of analysis
4. Vertical structure of the natural environment - measures and methods of analysis
5. Functional structure - links between components, methods of analysis
6. Classification and typology vs. physical-geographic regionalization
7. Concept of landscape patches, corridors and matrices
8. The concept of landscape potential and ecosystem benefits
9. The role of geoecology in spatial managemen

**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**

| | |
|---|---|
| Basic literature | 1. Chmielewski T.J., 2012, Landscape Systems. Structure - functioning - planning, Wyd. Nauk PWN, Warszawa.<br>2. Kistowski M., 2019, Directions of Polish applications of landscape ecology in land management after 1982. Przegląd Geograficzny, T. 91,1, p. 7-39.<br>3. Malinowska E., Lewandowski W., Harasimiuk A. (eds.), 2004, Geoecology and landscape conservation -lexicon, University of Warsaw, Wyd. Przemysłowe Wema, Warszawa<br>4. Przewoźniak M., 1987, Fundamentals of complex physical geography, Wyd. UG, Gdańsk<br>5. Richling A., 1992, Complex physical geography, PWN, Warszawa.<br>6. Richling, Solon, 1998, Landscape ecology, PWN, Warszawa |
| Supplementary literature | 1. Richling A. (ed.), 2007, Geographical studies of the natural environment, PWN, Warszawa<br>2. Ostaszewska K., 2002, Landscape geography, PWN, Warszawa. |
| eResources addresses | Adresy na platformie eNauczanie: |

**Example issues/ example questions/ tasks being completed**

- Knowledge of concepts, terms, theories and ideas related to the subject matter
- Knowledge of the structure and differentiation of the natural environment, basic natural processes of their impact on the material structure of the environment
- Ability to apply appropriate methods of landscape analysis (measures of horizontal structure, relationships between components).

**Work placement**

Not applicable

Document generated electronically. Does not require a seal or signature.