

**Subject card**

|  |  |  |  |                                     |  |            |     |
|--|--|--|--|-------------------------------------|--|------------|-----|
| <b>Subject name and code</b>                       | Typology and protection of terrestrial ecosystems, PG_00198118   |  |  |                                     |  |            |     |
| <b>Field of study</b>                              | Natural Resources Conservation   |  |  |                                     |  |            |     |
| <b>Date of commencement of studies</b>             | October 2026   | <b>Academic year of realisation of subject</b>           |  |                                     | 2027/2028  |            |     |
| <b>Education level</b>                             | Bachelor's studies   | <b>Subject group</b>                                     |  |                                     | Obligatory subject group in the field of study<br>Subject group related to scientific research 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>                               | 2  | <b>Language of instruction</b>                           |  |                                     | Polish   |            |     |
| <b>Semester of study</b>                           | 4  | <b>ECTS credits</b>                                      |  |                                     | 1.0  |            |     |
| <b>Learning profile</b>                            | academic   | <b>Assessment form</b>                                   |  |                                     | credit   |            |     |
| <b>Conducting unit</b>                             | Laboratory of Geobotanics and Nature Conservation -> Department of Plant Taxonomy and Nature Conservation -> Faculty of Biology -> Rector  |  |  |                                     |  |            |     |
| <b>Name and surname of lecturer (lecturers)</b>    | <b>Subject supervisor</b>  |  | dr Renata Afranowicz-Cieślak   |                                     |  |            |     |
|  | <b>Teachers</b>  |  |  |                                     |  |            |     |
| <b>Lesson types</b>                                | <b>Lesson type</b>   | Lecture  | Tutorial   | Laboratory                          | Project  | Seminar    | SUM |
|  | <b>Number of study hours</b>   | 15.0   | 0.0  | 0.0                                 | 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   |  | 2.0                                 |  | 8.0        | 25  |
| <b>Subject objectives</b>                          | Understanding the diversity of terrestrial plant communities in the Gdańsk Pomerania region. Understanding the relationship between habitat features and the development of phytocoenoses. Learning the basic concepts related to the description of plant communities, their floristic composition, structure and functions in the ecosystem.   |  |  |                                     |  |            |     |
| <b>Learning outcomes</b>                           | <b>Course outcome</b>  |  | <b>Subject outcome</b>   |                                     | <b>Method of verification</b>  |            |     |
|  | [OZPL3_W06] The graduate has an advanced understanding of the names and types of natural environments, including their structural and functional characteristics   |  | - names the types of natural environments (habitats) and characterizes them in terms of structure and functionality, indicates the most important features of the habitat influencing the formation and development of phytocoenoses |                                     | [SW4] test/exam - oral or written  |            |     |
|  | [OZPL3_W07] The graduate has an advanced understanding of the methods and means of nature and environmental protection, including nature monitoring  |  | - presents methods and forms of protection of selected terrestrial ecosystems  |                                     | [SW4] test/exam - oral or written  |            |     |
| <b>Subject contents</b>                            | Basic concepts and definitions (including: phytosociology, plant cover, vegetation, plant community, phytocoenosis, flora). Diversity of terrestrial phytocoenoses and a review of selected plant communities in Northern Poland, with particular emphasis on the main ones for Gdańsk Pomerania. Structure, functions and conditions of occurrence of various types of terrestrial phytocoenoses. The role of humans in shaping and modifying phytocoenoses and their habitats. |  |  |                                     |  |            |     |
| <b>Prerequisites and co-requisites</b>             | Basic knowledge of botany.   |  |  |                                     |  |            |     |
| <b>Assessment methods and criteria</b>             | <b>Subject passing criteria</b>  |  | <b>Passing threshold</b>   |                                     | <b>Percentage of the final grade</b>   |            |     |
|  | written assessment with closed and open questions  |  | 51.0%  |                                     | 100.0%   |            |     |

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|--|--------------------------|---|
| Recommended reading  | Basic literature         | Matuszkiewicz W. 2008. Guide to marking plant communities in Poland. Ed. Science. PWN, Warsaw. Herbich J. (ed.) 2004. Guides for the protection of Natura 2000 habitats and species methodological manual. Ministry of the Environment, Warsaw. Vol. 1-5, 9. Szafer W., Zarzycki K. (ed.) 1977. Plant cover of Poland. Vol. 1-2. PWN, Warsaw. Wysocki C., Sikorski P. 2002. Applied phytosociology. Ed. SGGW.   |
|  | Supplementary literature | Lazarus M., Afranowicz R. 2011. Vegetation of the edges of the estuary section of the Vistula (northern Poland). Part II. Meadow, herb, fringe, shrub and locally specific communities. Fragment. Flor. Geobot. Polonica 18(1): 101-118.<br><br>Lazarus M. 2016. The diversity of meadow and pasture vegetation in the Kaszubian Lake District (N Poland). Acta Botanica Cassubica, Monographiae 6, 114 pp.<br><br>Matuszkiewicz J. M. 2008. Forest associations in Poland. Ed. Science. PWN, Warsaw. |
|  | eResources addresses     |   |
| Example issues/<br>example questions/<br>tasks being completed |                          |   |
| Work placement   | Not applicable           |   |

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