

# Phytosociology - opis przedmiotu

| Informacje ogólne   |                                            |
|---------------------|--------------------------------------------|
| Nazwa przedmiotu    | Phytosociology                             |
| Kod przedmiotu      | 13.9-WB-P-Phy-S14                          |
| Wydział             | <a href="#">Wydział Nauk Biologicznych</a> |
| Kierunek            | WNB - oferta ERASMUS                       |
| Profil              | -                                          |
| Rodzaj studiów      | Program Erasmus                            |
| Semestr rozpoczęcia | semestr zimowy 2022/2023                   |

| Informacje o przedmiocie        |                                                                      |
|---------------------------------|----------------------------------------------------------------------|
| Semestr                         | 2                                                                    |
| Liczba punktów ECTS do zdobycia | 7                                                                    |
| Typ przedmiotu                  | obowiązkowy                                                          |
| Język nauczania                 | angielski                                                            |
| Sylabus opracował               | <ul style="list-style-type: none"><li>dr Dmytro Iakushenko</li></ul> |

| Formy zajęć |                                         |                                        |                                            |                                           |                     |
|-------------|-----------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------------------|---------------------|
| Forma zajęć | Liczba godzin w semestrze (stacjonarne) | Liczba godzin w tygodniu (stacjonarne) | Liczba godzin w semestrze (niestacjonarne) | Liczba godzin w tygodniu (niestacjonarne) | Forma zaliczenia    |
| Ćwiczenia   | 30                                      | 2                                      | -                                          | -                                         | Zaliczenie na ocenę |
| Wykład      | 30                                      | 2                                      | -                                          | -                                         | Zaliczenie na ocenę |

## Cel przedmiotu

The aim of the course is to present the phytosociology as a part of vegetation ecology, introduct into the rules and principles of the plant communities structure and dynamics, relations to the environmental factors, classification methods, and diversity of European vegetation.

## Wymagania wstępne

Passed courses on general ecology, general and systematic botany.

## Zakres tematyczny

LECTURE: Basic theoretical principles of phytosociology. Subject of phytosociological studies. Plan cover as a part of the landscape. Vegetation, plant communities and associations. The development of phytosociology in Europe. Principles of vegetation classification (Braun-Blanquet). The definition of plant community. Characteristic species. Syntaxa. Phytosociological nomenclature. Classification of vegetation. Types of communities. The composition and structure of plant communities. Vegetation structure models. Ecotones. The dynamic of vegetation. Diversity of European vegetation.

EXERCISES: Methods. Field studies: phytosociological relevés (reconnaissance, location and distribution of relevés, the size and shape of the surface, abundance, cover, periodicity of the research). Synthetic and syntaxonomic phase of the study. Numerical methods. Ordination. Applied phytosociology. Vegetation mapping. Phytosociology and landscape ecology. Changes and degeneration of plant communities.

## Metody kształcenia

LECTURE - feeding method (multimedia presentation)

EXERCISES - problematic: didactic discussion; practical: field data collection, survey and presentation.

## Efekty uczenia się i metody weryfikacji osiągnięcia efektów uczenia się

| Opis efektu                                                                                                                                                                                                 | Symbole efektów | Metody weryfikacji                                                                       | Forma zajęć                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| The student is able to distinguish and classify plant communities, conduct the phytosociological relevés, prepare the surveys and present their results.                                                    |                 | <ul style="list-style-type: none"><li>kolokwium</li><li>przygotowanie projektu</li></ul> | <ul style="list-style-type: none"><li>Ćwiczenia</li></ul>                |
| The student explains relationships between the structure, distribution and diversity of plant communities in the landscapes, and environmental factors; recognize basic syntaxa of the European vegetation. |                 | <ul style="list-style-type: none"><li>egzamin - ustny, opisowy, testowy i inne</li></ul> | <ul style="list-style-type: none"><li>Wykład</li><li>Ćwiczenia</li></ul> |
| The students are able to work in a group and organize the work according to the rules of safety.                                                                                                            |                 | <ul style="list-style-type: none"><li>bieżąca kontrola na zajęciach</li></ul>            | <ul style="list-style-type: none"><li>Ćwiczenia</li></ul>                |

## Warunki zaliczenia

LECTURE: the exam conducted in the verbal form after the credit of laboratory classes. The student is required to respond to at least four of the five questions.

EXERCISES: credit provides actively discussions during the conversational lessons and obtain positive mark from the research project.

## Literatura podstawowa

1. Kent M. 2012. Vegetation description and data analysis: a practical approach. Second Edition, Wiley-Blackwell.
2. Leuschner C., Ellenberg H. 2017. Vegetation Ecology of Central Europe, Volume I: Ecology of Central European Forests. Springer International Publishing.
3. Leuschner C., Ellenberg H. 2017. Vegetation Ecology of Central Europe, Volume II: Ecology of Central European Non-Forest Vegetation: Coastal to Alpine, Natural to Man-Made Habitats. Springer International Publishing.
4. Mucina L. et al. 2016. Vegetation of Europe: hierarchical floristic classification system of vascular plant, bryophyte, lichen, and algal communities. Applied Vegetation Science. 19 (S. 1): 3-264.

## Literatura uzupełniająca

1. Weber H.E., Moravec J., Theurillat J.P. 2000. International Code of Phytosociological Nomenclature. 3rd Edition. Journal of Vegetation Science 11: 739-768.

## Uwagi

Zmodyfikowane przez dr Dmytro Iakushenko (ostatnia modyfikacja: 06-05-2022 15:07)

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