Phytosociology - opis przedmiotu

Informacje ogólne

Nazwa przedmiotu	Phytosociology
Kod przedmiotu	13.9-WB-P-Phy-S14
Wydział	Wydział Nauk Biologicznych
Kierunek	WNB - oferta ERASMUS
Profil	-
Rodzaj studiów	Program Erasmus
Semestr rozpoczęcia	semestr zimowy 2018/2019

Informacje o przedmiocie

Semestr	2
Liczba punktów ECTS do zdobycia	7
Typ przedmiotu	obowiązkowy
Język nauczania	polski
Sylabus opracował	• dr Dmytro Iakushenko

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
Wykład	30	2	-	-	Egzamin
Ćwiczenia	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 association and 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 releves (reconnaissance, location and distribution of releves, the size and shape of the surface, aboundance, 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: didactyc discussion; practical: field data collection, survey and presentation.

Efekty uczenia się i metody weryfikacji osiągania efektów uczenia się

Opis efektu	Symbole efektów	Metody weryfikacji	Forma zajęć
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.		• egzamin - ustny, opisowy, testowy i inne	• Wykład • Ćwiczenia
The student is able to distinguish and classify plant communities, conduct the phytosociological releves, prepare the surveys and present their results.		• kolokwium • przygotowanie projektu	• Ćwiczenia
The students are able to work in a group and organize the work according to the rules of safety.		• bieżąca kontrola na zajęciach	• Ćwiczenia

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: 17-05-2018 14:05)

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