SYLLABUS

Name: Biodiversity and biogeography (25-BI-S2-E1-BB-AN)

Name in Polish: Bioróżnorodność i biogeografia Name in English: Biodiversity and biogeography

Information on course:

Course offered by department: Faculty of Biological Sciences Course for department: Faculty of Biological Sciences

Default type of course examination report:

Grading

Language:

English

Short description:

Prereguisites regarding knowledge, skills, and social competences for the course/module Basic knowledge of biogeography.

Student's own work:

- preparing for classes: 30h
- reading scientific publications: 30h

Description:

Educational aims:

- (a) provide an overview of the approaches and methods used in biogeographical studies:
- (b) to teach students how to apply knowledge of biogeographic patterns and mechanisms to solving important problems, e.g., biodiversity conservation:
- (c) to teach students how to identify, examine, assess and interpret scientific literature related to modern biogeography;
- (d) to develop in students a scientific way of thinking about biological diversity and conservation.

Course content:

Program: patterns of biodiversity: from local gradients to global biodiversity hotspots; the Theory of Island Biogeography; biogeography in the anthropocene: habitat loss, over-harvest, pollution, and climate change impacts on species distribution and abundance; human impact on biodiversity, e.g. domestication, invasive species; advances in phylogeography.phy.

Bibliography:

Mandatory and recommended reading list:

Scientific papers published in journals, e.g. Journal of Biogeography;

Nature Ecology and Evolution:

Global Change Biology;

Global Environmental Change;

Conservation Letters:

Global Ecology and Biogeography;

Conservation Biology;

Nature;

Science.

Learning outcomes:

Intended learning outcomes

Student:

knows the the distribution patterns of living organisms on Earth;

K W07

- knows the research topics, terminology and research methods used in biogeography;

K U07

-correctly interprets changes in the biodiversity patterns on Earth, based on data from various sources;

efficiently research biogeographical literature and properly analyses data that it contains;

- Shows pro-conservation attitudes and is aware of the threats to species diversity resulting from the unbalanced management of natural resources:

K U13

uses terminology and vocabulary necessary to explain and describe biological processes.

Assessment methods and assessment criteria:

Assessment methods for the intended learning outcomes:

continuous evaluation,

Credit requirements for individual components of the course/module:

- continuous evaluation,
- oral presentation.

Course credits in various terms:

USOSweb: Szczegóły przedmiotu: 25-BI-S2-E1-BB-AN, w cyklu: <brak>, jednostka dawcy: <brak>, grupa przedm.: <brak>

<without a="" program="" specific=""></without>			
Type of credits	Number	First term	Last term
European Credit Transfer System (ECTS)	3	2023/24-Z	