

Subject area: Advanced Methods in Biotechnology and Biodiversity

Subject: Arthropods diversity and conservation

Level: PhD

Year **I-IV**

Semester:**1-2**

Speciality: N/A

Status Facultative

ECTS: **2**

Department: **Zoology**

Staff:

Subject coordinator: Karina Wieczorek PhD

Lecture: Karina Wieczorek PhD, Dominik Chłond PhD

Seminars/Field studies: Karina Wieczorek PhD, Dominik Chłond PhD

Lectures	Conversatoria	Practicals	Total
-	-	15	15

Contents:

Lectures: The subject Arthropods diversity and conservation is addressed to students interested in the wide-ranging nature conservation. A huge variety of arthropods and disproportionately small number of protected species in this group of invertebrates will be the starting point for further discussion on effective ways to protect them.

Seminars/Field studies: The subject Arthropods diversity and conservation covers topics ranging from ecological theory to practical management. Study of this subject aims at understanding morphological structures of the various groups of arthropods in relation to their living environment. Their role in the ecosystem with particular emphasis on insects and other arthropods of agricultural, forestry and urban significance, as well as invasive species, their impact and control.

Methods and form of teaching: Lecture with multimedia devices, seminars with audiovisual aids, field observation of the adaptational variety of arthropods, use of database, individual work according to the protocol.

Requirements: Completed courses: biodiversity and approaches to the classification of organisms, life cycles of plants and animals, field studies in zoology.

References:

1. Chapman R.F. 2013. The insects. Structure and Function. Cambridge University Press.
2. Hawksworth D. L., Bull, Alan T. (Eds.). 2006. Arthropods diversity and conservation. Springer.
3. New T.R. 2012. Insect Conservation: Past, Present and Prospects. Springer.
4. Samways MJ., McGeoch M., New T.R. 2010. Insect conservation: A handbook of Approaches and Methods (Techniques in Ecology&Conservation). Oxford University Press.
5. The IUCN Red List of Threatened Species
http://www.iucn.org/about/work/programmes/species/our_work/invertebrates/