Module title: Agroecology

Abbreviation: 07-MAGRE-152-m01

Module coordinator: holder of the Chair of Animal Ecology and Tropical Biology

Module offered by: Faculty of Biology

ECTS: 2

Method of grading: numerical grade

Duration: 1 semester

Module level: graduate

Other prerequisites: --

Contents:
Biodiversity and ecosystem functioning in agricultural ecosystems. Insect communities in different crops, pest-beneficial organisms-interactions, and biological pest control. Experiment in comparison of organically and conventionally farmed agricultural land (plant diversity, herbivore, predator, pollinator diversity). Field trip to nature conservation-related agricultural areas (e.g. semi-arid grassland), presentation of agri-environmental measures.

Intended learning outcomes:
The students will acquire knowledge about the species diversity, structure and functional role of arthropod communities in agricultural ecosystems. They will be able to perform scientific work in agricultural ecosystems, to perform statistical analyses, and to interpret the results. They will be familiar with problems and possible solutions in agricultural ecosystems in the context of a sustainable use of biodiversity and ecosystem services.

Courses:
(3)

Module taught in: German and/or English

Method of assessment:
Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes)

Language of assessment: German and/or English

Allocation of places:
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Additional information:
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Referred to in LPO I (examination regulations for teaching-degree programmes):
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Module appears in:
Master’s degree (1 major) Biology (2015)
Master’s degree (1 major) Biosciences (2016)
Master’s degree (1 major) Biosciences (2017)