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| Module Name | | Module Code | |
| Integrated Management of Rural & Woodland Regions | | agrarAEF078-01b | |
| Module Coordinator | | | |
| Prof. Dr. Tim Diekötter | | | |
| Organizer | | | |
| Institute for Natural Resource Conservation - Landscape Ecology | | | |
| Faculty | | | |
| Faculty of Agricultural and Nutritional Sciences | | | |
| Examination Office | | | |
| Faculty of Agricultural and Nutritional Sciences - Examination Office | | | |
| ECTS Credits | 6 | | |
| Evaluation | Graded | | |
| Duration | one semester | | |
| Frequency | Only takes place during summer semesters | | |
| Workload per ECTS Credit | 30 hours | | |
| Total Workload | 180 hours | | |
| Contact Time | 60 hours | | |
| Independent Study | 120 hours | | |
| English | English | | |
| Module Courses | | | |
| Course Type | Course Name | Compulsory/Optional | SWS |
| Field excursion | Integrated Management of Rural & Woodland Regions | Compulsory | 1 |
| Seminar | Integrated Management of Rural & Woodland Regions | Compulsory | 1 |
| Practical exercise | Integrated Management of Rural & Woodland Regions | Compulsory | 2 |

Prerequisites for Admission to the Examination(s):

Regular visits of field excursion are compulsory

Module Course**Examination(s)**

| Examination Name | Type of Examination | Evaluation | Compulsory / Optional | Weighting |
|--|---------------------|------------|-----------------------|-----------|
| Seminar Paper with Assignment: Integrated Management of Rural & Woodland Regions | Seminar Coursework | Graded | Compulsory | 100 |

Further Information on the Examination(s)

1. + 2. period in summer semester
 1. period in winter semester
 examiner: Prof. Dr. Diekötter/~~PD-Dr. Donath~~ and staff
 QIS: 75402 with number of Examination 75420
 A new topic will be assigned every time the current exam period will not be met.

Short summary

Students will experience and analyse how different management systems affect the structure of landscapes and land-use types and patterns of biodiversity therein. Thereby students will learn to evaluate different land-use systems by taking on different perspectives, by using appropriate sources of knowledge and applying different methodological tools. It is the course's aim to provide a basic insight into the integrated management of rural and woodland regions.

Course content

It is the course's objective to familiarize students with different management types of rural and woodland systems. Thematic aspects under this topic will be prepared in talks and group discussions before a 3-day excursion. During this excursion, effects of land use on abiotic conditions, landscape structure, biodiversity and associated ecosystem services in these systems will be discussed with local experts in the field. Exemplarily, patterns of land use and forest structure as well as selected components of biodiversity will be quantified in the field. So collected data will be processed and analysed using GIS in the lab. In combination with additionally provided data, patterns of landscape and forest structure will be related to patterns of biodiversity.

Learning Outcome

Students will learn how to use scientific knowledge as a basis for the management of ecosystems. They will gain basic skills in using geographic information systems GIS and the freely available statistical software R. Participants will learn to link basic ecological knowledge to issues of environmental management. They will learn to take on different perspectives in the evaluation of environmental issues and utilize the resulting insights for an adaptive ecosystem management.

Reading List

Meffe GK et al. (2002) Ecosystem management : adaptive, community-based conservation

Articles provided during the course.

Additional Information

Maximum number of participants: 24
Enrollment by OLAT within workdays Monday through Friday in the 1st week of the 2. audit period of the preceding semester.
Following information are necessary:
matriculation number last name first name striven degree study program
stu-Email
The allocation of the places takes place in the 2nd week of the 2. audit period of the preceding semester.
Acceptance of the place by students only through participation at the first day of the course. Students without a place can get a place at the first day of the course by move-up procedure. Priority will be given to students from M.Sc. Agricultural Sciences specialisation environmental sciences.

| Use | Compulsory / Optional | Semester |
|--|------------------------------|-----------------|
| Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2017) | Optional | - |
| Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2013) | Optional | - |
| Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2017) | Optional | - |
| Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2013) | Optional | - |
| Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2017) | Optional | - |
| Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2013) | Optional | - |
| Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2017) | Optional | - |
| Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2013) | Optional | - |
| Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2017) | Compulsory | - |
| Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2013) | Compulsory | - |
| Master, 1-subject, Dairy Science, (Version 2017) | Optional | - |
| Master, 1-subject, Environmental Management, (Version 2017) | Optional | - |
| Master, 1-subject, Environmental Management, (Version 2013) | Optional | - |

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| Master, 1-subject, Nutritional and Food Science, (Version 2013) | Optional | - |
| Master, 1-subject, Nutritional and Consumer Economics, (Version 2017) | Optional | - |
| Master, 1-subject, Nutritional and Consumer Economics, (Version 2013) | Optional | - |
| Master, 1-subject, Sustainability, Society and the Environment, (Version 2013) | Optional | - |
| Master Applied Ecology NEU | Optional | |
| Master Environmental and Resource Economics NEU | Optional | |
| Master Environmental Geography and Management NEU | Optional | |