Module Name	1.7 Soil Ecology
Identification code	AEF282, AE-CÁU402
	(QIS-registration for examination) 72200
Subtitle	
Courses embedded	
Term	Winter
Coordinator	Dr. C. Schimming
Teachers	Dr. C. Schimming
	Prof. Dr. Bölter
Tuition language	English
Programme involvement	Elective MSc Environmental Management
C C	Compulsory MSc European Master in Applied Ecology
Teaching form,	Lecture: 30h/90h. – Schimming/Bölter
contact time per week	Practice: 30 h/90h – Schimming/Bölter
class size	12
Workload overall	180h
Contact time	60h
ECTS credit points	6
Preconditions prescribed	
Prerequisites recommended	
Learning outcomes	Students understand soil ecological interrelations/processes and are
-	able to recognize the function of biological components and their
	interactions, and can estimate the impacts of agricultural impacts to the
	soil organisms. The practical part of this module deals with methods of
	detection of soil zoological and microbiological parameters and with the
	influences of different types of land use measures
Content	Soil zoology: lifeforms and the activity of soil organisms; decomposition
	processes; the influence of agriculture on the function of soil organisms
	and food chains in soil. Soilmicrobiology; Functions of soil organisms,
	e.g. decomposition and enzyme activity
Assessment	Written exam 100%
Teaching media	Powerpoint-Präsentationen & discussions
References	- D.C. Coleman, D.A. Crossley, P.F. Hendrix: Fundamentals of
	Soil Ecology (Elsevier)
	- U. Gisi: Bodenökologie (Thieme Verlag)
	- G. Brucker, D. Kalusche: Bode und Umwelt (Quelle & Meyer)
	- W. Dunger, H.J. Fiedler: Methoden der Bodenbioogie (Fischer)
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