Module Name	3.2.1 Advanced Ecosystem Analysis in Environmental Management
Identification code	AEF302, EM3.2.1
	(QIS-registration for examination) 78100
Subtitle	
Courses embedded	
Term	Winter
Coordinator	Prof. Dr. F. Müller
Teachers	Prof. Dr. F. Müller
	Dr. W. Windhorst
	Dr. B. Burkhard
Tuition language	English
Programme involvement	Elective MSc Environmental Management
Teaching form,	Seminar Advanced Ecosystem Analysis in Environemtal
contact time per week	Management (60h/180h)
class size	25
Workload overall	180h
Contact time	60h
ECTS credit points	6
Preconditions prescribed	
Prerequisites recommended	Assessment in Module EM2.2.1
Learning outcomes	Students understand the structual and dynamic interaction of social
	targets of natural ressources management and the local characteristics
	of an ecosystem. Participants are able to demonstrate different
	scenarios of social measures and to model the potential ecological
	reactions. They are also able to evaluate the meaning of the analysis in
	social context.
Content	In this module advanced methods of systemsanalysis and ecological
	modelling are linked with modern methods of natural ressource
	management. Based on a multidimensional, hierachical indicator
	concept, dynamic scenarios of possible social changes are modellbased
	developed,. Students will develope and evaluate alternative operation
	options in smaller porjects. The results will be used to create integrated
	monitoring systems that are able to meassure the success of protection
	actions. Finally, the results will be evaluated in the context fo local,
	regional and international environmental monitoring systems and
	environmental politics.
Assessment	Presentation 100%
Teaching media	Presentations, discussions, group work, computerexercises, case
	studies
References	Costanza, R. et al. (1997): Ecological economics. Boca Raton
	Millenium Assessment Board (2003): Ecosystems and human well-
	being. Washington, Wiggering, H. & F.Müller (2004): Umweltziele und
	Indikatoren. Berlin, Heidelberg New York
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