

Module Name	Module Code
Fieldtrip Limnoecology Lake Baikal	EMAEF024-01a
Module Coordinator	
Organizer	
Faculty of Agricultural and Nutritional Sciences - Institute for Natural Resource Conservation	
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
Teaching Language	German

Entry Requirements as Stated in the Examination Regulations			
Regular visits of Filed trip necessary.			
Module Courses			
Course Type	Course Name	Compul- sory/Optional	SWS
Practical exercise	Limnoecology	Compulsory	3,5
Field trip	Limnoecology	Compulsory	0,5

Examination(s)				
Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Protocol: Fieldtrip Limnoecology Lake Baikal	Protocol	Graded	Compulsory	100
Further Information on the Examination(s)				
1.+2. period in summer semester 1. period in winter semester examiner: Prof. Dr. Bork QIS: 74601 with number of Examination 74610				

Course Content
<p>The working program is organized as follows:</p> <ol style="list-style-type: none">1. "Structure and functioning of aquatic ecosystems under Global Change" (Global climate processes, chemical, physical and biological pollution, their influence on aquatic ecosystems).2. "Structure and functioning of aquatic ecosystems of large water bodies" (Processes, normally occurring inecosystems of large water bodies: production, destruction, reproduction)3. " Structure and functioning of ecosystems of watershed basins".
Learning Outcome
<p>Students are to learn how to diagnose large freshwater ecosystems, taking into account their biological and physico-chemical parameters. What is more, students will also be able to use the acquired theoretical knowledge in practice (i.e. in nature resources management like restoration, water protection,) and they will learn how to present the results obtained during the field research orally and in writing.</p> <p>Students are competent to obtained results of field and laboratory investigations and to evaluate the ecological condition of Lake Baikal and its environment in respect to climate change and recent economic developments. By comparing them with the data obtained in 2008 and 2010 students will be able to evaluate changes of the ecosystems and to devise integrated management options to foster a sustainable regional development.</p>
Reading List
<p>Silow E. A. Introduction to Limnoecology: Biological Processes in the Water / E.A. Silow. - REC Baikal, 2007.Upload Biological Processes in the Water.pps (1.22 Mb)</p> <p>Climate Change and the World's "Sacred Sea"—Lake Baikal, Siberia / M. V. Moore, S. E. Hampton, L. R. Izmet'eva, E. A. Silow, E. V. Peshkova, B. K. Pavlov // BioScience. – 2009. – Vol. 59, N 5. – P. 405–417.</p> <p>Silow E. Lake Baikal as possible sentinel of the Climate Change / E. Silow // 13th World Lake Conference. 2009. http://lake.baikal.ru/ru/library/publication.html?action=show&id=637</p> <p>Further literature: http://lake.baikal.ru/en/library/index.html</p>

Use	Compulsory / Optional	Semester
Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Crop Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Environmental Management, Double-Degree-Agreement with Adam-Mickiewicz-University, Polen (UAM), (Version 2020)	Optional	-
Master, 1-Subject, Environmental Management, Double-Degree-Agreement with Irkutsk State University, Russland (ISU), (Version 2020)	Optional	-
Master, 1-Subject, Environmental Management, (Version 2020)	Optional	-
Master, 1-Subject, Nutritional and Food Science, (Version 2013)	Optional	-
Master, 1-Subject, Nutritional and Consumer Economics, (Version 2017)	Optional	-