

Module Name	2.1.7 Fieldtrip Limnoecology Lake Baikal
Identification code	AEF408, AE314 Modul 2.1.1 (QIS-registration for examination) 74600
Subtitle	
Courses embedded	
Term	Summer
Coordinator	Dr. Wilhelm Windhorst
Teachers	Prof. Dr. Dietrich Ober Dr. M. Nickol Dr. W. Windhorst
Tuition language	English
Programme involvement	Elective MSc Environmental Management Elective Msc European Master in Applied Ecology
Teaching form, contact time per week class size	Seminar Limnoecology, (30h/90h) Excursion Limnoecology, (30h/90h) 10
Workload overall	180h
Contact time	60h
ECTS credit points	6
Preconditions prescribed	
Prerequisites recommended	
Learning outcomes	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. Students are competent to obtain 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.
Content	The working program is organized as follows: 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 in ecosystems of large water bodies: production, destruction, reproduction) 3. " Structure and functioning of ecosystems of watershed basins".
Assessment	Project 100%
Teaching media	Field work, Lab work, Seminars
References	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) Climate Change and the World's "Sacred Sea"—Lake Baikal, Siberia / M. V. Moore, S. E. Hampton, L. R. Izmet'seva, E. A. Silow, E. V. Peshkova, B. K. Pavlov // BioScience. – 2009. – Vol. 59, N 5. – P. 405–417. Silow E. Lake Baikal as possible sentinel of the Climate Change / E. Silow // 13th World Lake Conference. 2009. http://lake.baikal.ru/en/library/publication.html?action=show&id=637 Further literature: http://lake.baikal.ru/en/library/index.html
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