



COURSE DATASHEET

Semester:	2014/15/1
Course:	Ecology
Code:	VEMKKVB1120
Responsible department:	Department of Limnology
Department code:	MKLI
Responsible instructor:	András Ács

Course objectives:

Overview on the principles of ecosystem functioning. Students should be able to apply theoretical knowledge in engineering work such as constructed wetlands or bioremediation. Should also be able to prepare an ecological impact assessment, to design and operate biomonitoring systems.

Course content:

? Bioindication and its application in environmental impact assessments ? Biomonitoring: design and operation of systems ? Algorithm of the ecological impact assessment ? Structure and functioning of ecosystems. Resistance, resilience. ? Ecological engineering: constructed wetlands. ? Assessment of large-scale ecological changes. ? Case studies

Requirements, evaluation and grading:

Examination

Required and recommended readings:

Begon-Harper-Townsend: Ecology Blackwell Scientific Publications, Oxford, 1986
Hayward: Applied Ecology Nelson, London, 1992