



COURSE DATASHEET

Semester:	2016/17/1
Course:	Resilience of natural waters
Code:	NKMKLIT211T
Responsible department:	
Department code:	MKNK
Responsible instructor:	Dr. Judit Padisák

Course objectives:

Conducting knowledge on matter and energy fluxes of natural waters, with participating biota and their role these transfer processes. Development and deepening of environmental awareness.

Course content:

1. Characteristic surface water types of Hungary, natural, artificial and modified water bodies
2. Special features of matter- and energy transport in running waters, oxygen conditions and self purification
3. Sources and sinks of N and P, their role in matter- and energy flow in aquatic ecosystems
4. Food webs in aquatic ecosystems, biological quality elements of the Water Framework Directive
5. Characteristics of matter- and energy flow in different sections of running waters, the riverine spiral model and the River Continuum concept
6. Biotic indices in establishment of ecological state of running waters
7. Ecological status, ecological potential, reference state, biodiversity
8. Biotic elements in establishment of environmental damages and risks

Requirements, evaluation and grading:

Written exam consisting of two parts: definition of 30 terms and detailed response to two essay questions

Required and recommended readings: