



COURSE DATASHEET

Semester:	2012/13/2
Course:	Water Treatment Laboratory Practice
Code:	VEMKKVT232V
Responsible department:	Department of Environmental Engineering
Department code:	MKKV
Responsible instructor:	dr. Árpád Kárpáti

Course objectives:

Getting acquainted with the most important unit processes of the water treatment

Course content:

1. Sampling of groundwater and surface waters. 2. Water quality control of surface waters. 3. Removal of Fe and Mn from groundwater. 4. Ammonium removal from groundwater with dry sand filtration. 5. Disinfection of ammonium containing groundwater with chlorine. 6. Measuring the oil content in pre-treated oil processing effluent. 7. Measuring chlorine removal from potable water with home treatment facilities. 8. Efficiency of ozonation and AC filtration in removal of organic contamination from inking water (TOC control). 9. Nitrate removal from raw water with packed bed filters and lime/elemental S substrate. 10. Water softening with lime/sodium-carbonate treatment. 11. Softening of potable water with ion-exchange. 12. Removal of heavy metals from contaminated drinking water.

Requirements, evaluation and grading:

Knowledge of the theoretical basis and the details of the measurement.

Required and recommended readings:

Kiadott mérési leíratok