



## COURSE DATASHEET

<b>Semester:</b>	2012/13/1
<b>Course:</b>	Soil- and Groundwater Protection
<b>Code:</b>	VEMKKVT122T
<b>Responsible department:</b>	Department of Environmental Engineering
<b>Department code:</b>	MKKV
<b>Responsible instructor:</b>	Dr. Erzsébet Horváth

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### Course objectives:

Protection of environmental elements, remediation technologies on the base of examples;

### Course content:

1. Influence of wet quality for the ground water; 2. evapotranspiracy; 3. Mechanisms causing groundwater acidity and puffer-effects; 4. The influence of pH for pollution migration; 5. Redox processes in soil water; 6. Adsorption in the soil; 7. Ion-exchange processes in the soil; 8. Calculations, chemical processesI. 9. Calculations, chemical processesII. 10. Cessation of interactions between hydrophyl contaminants and soil/soil water 11. Cessation of interactions between hydrophobe contaminants and soil/soil water 12. Determination of inorganic pollutions 13. Determination of volatile pollutions 14. test 15. Determination of organic pollutions

### Requirements, evaluation and grading:

individual work and succesfull test

### Required and recommended readings:

Szabó I.: Hulladdékelhelyezés III. Ipar a Környezetért Alapítvány, 1995. ? C.A.J. Appelo, D. Postma: Geochemistry, groundwater and pollution, 1992. Rotterdam