Name of lecture: **Environmental and nature field exercises**	*NEPTUN-cod:* RKXGY1EBNE	*Numbers of hours:* *l+cw+lb* 0+0+3	***Credit*** 4 ***Exam:*** tm
Course leader: Krisztina Demény Dr.	***Position:*** senior lecturer	***Preliminary credits:***	

Curriculum:

The aim of the course is to apply the theoretical knowledge acquired in professional subjects to practical work, field work and field visits. Sampling and measurements on the field and in the lab provide students with experience that they can build upon to solve a problem later on. The main objective of the course is to create a competence-based environmental engineer training in addition to advanced theoretical science training. During the semester the students will participate in field visits and field work to identify environmental and nature conservation issues. Direct contact with the environment helps to develop an environmentally conscious approach, to recognize the causal relationships and relationships between the state of the natural environment and human activity. It is possible to observe anthropogenic impacts in the environment - waste incineration plant, sewage treatment plant, landfill, small water streams, municipal infrastructure, etc., and to carry out impact studies. During the course students will have the opportunity to interpret and analyze complex environmental and nature conservation problems.

Professional competencies:

Knowledge of general and specific mathematical, natural and social scientific principles, rules, relations, and procedures as required to pursue activities in the special field of environment protection.
Knowledge of the learning, knowledge acquisition, and data collection methods of the special fields of environment protection, their ethical limitations and problem solving techniques.
Knowledge of the main methods to examine the quantity and quality features of environmental elements and systems, their typical measuring instruments and limitations thereof, as well as methods for the evaluation of data measured.
Able to perform environmental impact assessments and to participate in compiling impact studies.
Able to apply in practice as well the regulations and requirements of health and safety, fire protection, and safety engineering as related to their special field.
Able to participate in project and proposal implementation and audit tasks based on their knowledge.
Able to participate creatively in engineering work based on their multidisciplinary skills, as well as to adapt to continuously changing circumstances.
Undertaking and authentically representing the social role of environment protection, its basic relationship with the world.

Literature:

moodle -e-learning

ppt of the lecture