

Course name: Water Engineering

Course code: YCRVÍÉGBNF

Hours per week: 2 lecture / 1 practice / 0 laboratory; E: exam / 6 credits

Department of Building Informatics, Geodesy and Mathematics

In charge: Dr. Eszter Horváth-Kálmán

For students of BSc in Civil Engineering

Pre-requirements for Erasmus students: 1 semester Hydraulics

OBJECTIVE OF THE COURSE:

The aim of the course is to provide an overview of water engineering and water management

14 WEEKS SCHEDULE:

1. week: The purpose and tasks of water management/ Description of the semester assignments and requirements
2. week: Plain water management/ Description of the semester assignments and requirements.
3. week: Hillside water management/ Review of the knowledge of hydraulics and hydrology required to complete the semester design work.
4. week: River regulation, Downhill water regulation, Hard coastal protection structures/ Review of the knowledge of hydraulics and hydrology required to complete the semester design work.
5. week: Drinking water management and drinking water well drilling/ Consultation
6. week: Hydropower / Consultation
7. week: Mid-term test 1.
8. week: Dam /Consultation
9. Flood protection / Discussing the detail of the design work
10. Water transport, ports, harbours / Discussing the detail of the design work
11. Agricultural water management / Consultation
12. Thermal water management. Spa and beach baths. / Consultation
13. Mid-term test 2.

Assessment:

Midterm assignment and exam

