



## COURSE DATASHEET

<b>Semester:</b>	2016/17/1
<b>Course:</b>	Water chemistry and technology laboratory
<b>Code:</b>	NKMKKAT236V
<b>Responsible department:</b>	
<b>Department code:</b>	MKNK
<b>Responsible instructor:</b>	Krisztián Horváth

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### Course objectives:

Understanding of methodologies in water chemistry and technology.

### Course content:

1. Water chemistry: on-line and off-line determination of the most important parameters of water.
2. Measurement of parameters of reverse osmosis and EDI.
3. Membrane technology: Ultrafiltration and membrane resistance.
4. Microbiology: transfer of microorganisms. Isolation of microorganisms from water. Sterile sampling. Gram staining.
5. Water analysis: determination of inorganic anions by high performance anion chromatography.
6. Plant visit.

### Requirements, evaluation and grading:

Evaluation of the laboratory practice: the final mark is the weighted mean value of the marks received for the practical tasks and the final paper written at the end of the semester

It is strictly required that the paper written at the end of the semester and all of the practical tasks are at least grade 2.

### Required and recommended readings: