



## COURSE DATASHEET

<b>Semester:</b>	2012/13/2
<b>Course:</b>	Membrane processes - laboratory practice
<b>Code:</b>	VEMKBMB432M
<b>Responsible department:</b>	Research Institute on Bioengineering, Membrane Technology and Energetics
<b>Department code:</b>	MKBME
<b>Responsible instructor:</b>	dr. Béla Nándor Nemestóthy

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### Course objectives:

The aim of the measurements is to study membrane processes like MF UF NF and RO separation. Students are work individually or groups of 3-4.

### Course content:

1. Ultrafiltration of protein mixture
2. OD MD process for water removal
3. Pervaporation of organic mixtures
4. RO filtration to ultrapure water producing

### Requirements, evaluation and grading:

The accomplishment of the all measurements. Preparing a related report and a preceding test.

### Required and recommended readings:

J. Mulder: Basic Principles of Membrane Technology Kluwer 1995

Bélafiné Bakó Katalin, Membrános műveletek, Veszprémi Egyetemi Kiadó, 2000