



## COURSE DATASHEET

<b>Semester:</b>	2016/17/1
<b>Course:</b>	Up-to-date Bioseparation Techniques Lab. Practice
<b>Code:</b>	VEMKBMB332K
<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:

Basic introduction to bioseparation techniques.

### Course content:

1. Filtration, centrifugation.
2. Ultrafiltration.
3. Flocculation.
4. Adsorption.
5. Adsorption in fluid layers.
6. Fluid-fluid extraction.
7. Fluid-solid extraction.
8. Evaporation, rectification.
9. Crystallization.
10. Chromatographical methods.
11. Simulated moving layer chromatography.
12. Ion-exchange chromatography.
13. Supercritical fluid chromatography.
14. Chiral separation methods.
15. Report.



# UNIVERSITY OF PANNONIA

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### Requirements, evaluation and grading:

Terms of signature:

Accomplishment of the allocated measurements.

One substitution is allowed.

Average of the final test and the lab tests.

### Required and recommended readings: