



COURSE DATASHEET

Semester:	2012/13/1
Course:	Up-to-date bioseparation techniques laboratory practice
Code:	VEMKMUB333K
Responsible department:	Research Institute on Bioengineering, Membrane Technology and Energetics
Department code:	MKBME
Responsible instructor:	dr. Béla Nándor Nemestóthy

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.



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Requirements, evaluation and grading:

The allocated measurements.

Required and recommended readings:

I. Endo, T. Nagamune, S. Katoh, T. Yonemoto Bioseparation Engineering 2000 ELSEVIER