



COURSE DATASHEET

Semester:	2012/13/2
Course:	Fine chemical technologies
Code:	VEMKTEV213F
Responsible department:	Department of Chemical Engineering Science
Department code:	MKMU
Responsible instructor:	Dr. János Argyelán

Course objectives:

Introduction to the separation processes of the pharmaceutical and fine chemical industry.

Course content:

1. Registration 2. Gas adsorption processes, PSA, high purity gas 3. Stationary bed processes, fluid adsorption processes 4. Ion-exchange, parametrical pumping 5. Preparative fluid chromatography 6. SMB 7. holiday 8. Bioseparation processes 9. Solid-fluid extraction with reaction, supercritical extraction 10. holiday 11. Membrane separation 12. Extractive, azeotrope, pressure changing distillation 13. Special drying processes 14. Granulation 15. TQM in the pharmaceutical and fine chemical industry

Requirements, evaluation and grading:

Mid-term papers' mean average ≥ 2 , the papers give 30% of the final grade.

Required and recommended readings:

Tanszéki jegyzetek.