



COURSE DATASHEET

Semester:	2014/15/2
Course:	Unit operations B
Code:	VEMKMUB212V
Responsible department:	Department of Chemical Engineering Science
Department code:	MKMU
Responsible instructor:	dr. László Hanák

Course objectives:

Provides basic knowledge for process engineering.

Course content:

1. Definition of degree of liberty, degree of liberty of unit operations 2. Equilibrium in multiphase mixtures 3. Hydrodynamics in unit operations 4. Dust and droplet removal 5. Particle size enhancement and classification 6. Evaporation 7. Exam 8. Cooling 9. Distillation of mixtures 10. Design of a distillation column 11. Countercurrent and cross flow extraction 12. Makrokinetics, catalytic reactors 13. Bioreactors 14. Process control 15. Exam

Requirements, evaluation and grading:

The average of the two exams must be at least 2,0 this note gives 30 % of the final note.

Required and recommended readings:

Fonyó-Fábr: Vegyipari műveleti alapismeretek, Coulson-Richardson's: Chemical Engineering I-III. különböző tanszéki jegyzetek