



SUBJECT DATASHEET

Semester:	2009/10/2
Subject:	Unit operations A
Code:	VEMKMUB244A
Responsible department:	Department of Chemical Engineering Science
Responsible department code:	MKMU
Responsible lecturer:	dr. Géza Horváth

Educational objectives:

Provides basic knowledge for process engineering.

Detailed content of the subject:

1. Process engineering, unit operation, flow diagrams, classification of the chemical processes 2. Mechanical processes, filtration, centrifugal separation, size reduction, mixing, membranes 3. Component separation, tandem systems 4. Ab- and desorption processes, equipments 5. Distillation processes, equipments 6. Rectification, equipments 7. Exam 8. Crystallization, equipments 9. Extraction, equipments 10. Adsorption, ion exchange, equipments 11. Drying, equipments 12. Hydrodynamic and thermodynamic classification of reactors 13. Isotherm and adiabatic reactors 14. Catalytic reactors 15. Exam

Requirements:

The average of the two exams must be at least 2,0.

Required and suggested references:

Különböző tanszéki jegyzetek, Fonyó-Fábri: Vegyipari műveleti alapismeretek, Coulson & Richardson's Chemical Engineering I-III.