



COURSE DATASHEET

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| Semester: | 2012/13/2 |
| Course: | Unit operations A |
| Code: | VEMKMUB244A |
| Responsible department: | Department of Chemical Engineering Science |
| Department code: | MKMU |
| Responsible instructor: | dr. Géza Horváth |

Course objectives:

To provide basic knowledge for process engineering.

Course content:

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, evaluation and grading:

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

Required and recommended readings:

Textbooks provided by the department, Fonyó-Fábri: Vegyipari műveleti alapismeretek, Coulson & Richardson's Chemical Engineering I-III.