



## COURSE DATASHEET

<b>Semester:</b>	2014/15/1
<b>Course:</b>	Chemical process engineering laboratory practice
<b>Code:</b>	VEMKMUB134V
<b>Responsible department:</b>	Department of Chemical Engineering Science
<b>Department code:</b>	MKMU
<b>Responsible instructor:</b>	dr. László Szokonya

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### Course objectives:

Students acquire knowledge about component separation processes and chemical reactors.

### Course content:

1. General orientation, accident prevention 2. Distillation in packed column 3. Absorption in packed column 4. Absorption in bubble column 5. Absorption in film absorber 6. Liquid-liquid extraction in perforated plate pulsation extractor 7. Examination 8. Packed bed ion-exchange column 9. Tank-in-series reactor 10. Tube reactor 11. Residence time distribution 12. Liquid adsorption 13. Mass transfer kinetics 14. Ultrafiltration 15. Examination

### Requirements, evaluation and grading:

During the semester 10 measurement must be accomplished and evaluated. If the average not of these measurements is below 2, the laboratory practice must be repeated in the next semester. The two oral examination average value is taking into account in the laboratory practice note. (Average of labor measurements + average oral exams)/2, which is modified from fraction to complete note after the work of the student during the semester. If the average oral examination note is below 2, the student must use a repeated examination card.

### Required and recommended readings:

Vegyipari művelettan laboratóriumi gyakorlatok. Jegyzet Vegyészmérnökök kézikönyve. (Perry, J.H.)