



## COURSE DATASHEET

<b>Semester:</b>	2016/17/1
<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 Hanák

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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. Liquid-liquid extraction in perforated plate pulsation extractor 5. Tank-in-series reactor 6. Tube reactor 7. Residence time distribution 8. Liquid adsorption 9. Mass transfer kinetics 10. Ultrafiltration

### 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.)