UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester:	2015/16/2
Course:	Down-stream processing lab training
Code:	VEMKBMB332F
Responsible department:	Research Institute on Bioengineering, Membrane Technology and Energetics
Department code:	MKBME
Responsible instructor:	dr. Béla Nándor Nemestóthy

Course objectives:

Study downstream processes like centrifugation, membrane separation. Students are work individually or groups of 3-4.

Course content:

1. To carry out a whole fermentation process (steps, sampling, decontamination)
2. Centrifugation, liofilzation Ultrafiltration (3DTA)
3. Adsorptive product recovery
4. Extractive Product recovery

Requirements, evaluation and grading:

Terms of signature:
Accomplishment of the allocated measurements.
One substitution is allowed.
Average of the final test and the lab tests.
It's can be improved on time.

Required and recommended readings:

Ladisch, Michael R Bioseparations Engineering: Principles, Practice, and Economics. Wiley. 2001

Pécs Miklós: A biológiai iparok elválasztási műveletei BME 2010