



UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester:	2012/13/2
Course:	Down-stream processing
Code:	VEMKBMB312F
Responsible department:	Research Institute on Bioengineering, Membrane Technology and Energetics
Department code:	MKBME
Responsible instructor:	Zsófia Eszter Csanádi

Course objectives:

Study of the main downstream processes in fermentation technologies.

Course content:

1. Separation techniques in downstream processes
2. Recovery of cells, precipitation
3. Product concentration processes in fermentation technologies
4. Product cleaning processes in fermentation technologies

Requirements, evaluation and grading:

The lectures' materials.

Required and recommended readings:

Vogel, H.C., Todaro, C.L.: Fermentation and biochemical engineering handbook. William Andrew Publishing, 1997. Prasad, N.K.: Downstream process technology: A new horizon in biotechnology. PHI Learning, 2010.