UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester:	2016/17/1
Course:	Bioprocessing lab training
Code:	VEMKBMB332B
Responsible department:	Research Institute on Bioengineering, Membrane Technology and Energetics
Department code:	MKBME
Responsible instructor:	dr. Béla Nándor Nemestóthy

Course objectives:

Study bio engineering processes like inocolum preparation, centrifugation, cell counting. Students are work individually or groups of 3-4.

Course content:

1. Sterilization, laminar flow box, microscope.
2. Inoculation cell counting (OD, photometric).
3. Parts of a bioreactor, control possibilities.
4. Oxygen supply, O2 determination electrodes.
5. Cell fixation methods.

Requirements, evaluation and grading:

The accomplishment of the all measurements. Preparing a related report and a preceding test.

Required and recommended readings:

Biokémia, Elődi P., (Akadémiai Kiadó, Budapest), 1989, (Hung). Biochemical Engineering Fundamentals, Bailey, J. E., Ollis, D. F., (McGraw-Hill, New York), 1986.