



SUBJECT DATASHEET

Semester:	2009/10/1
Subject:	Bioprocessing lab training
Code:	VEMKBMB332B
Responsible department:	Research Institute on Bioengineering, Membrane Technology and Energetics
Responsible department code:	MKBM
Responsible lecturer:	dr. Béla Nándor Nemestóthy

Educational objectives:

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

Detailed content of the subject:

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:

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

Required and suggested references:

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