



SUBJECT DATASHEET

Semester:	2009/10/2
Subject:	Bioreactors laboratory practice
Code:	VEMKMUB332B
Responsible department:	Research Institute on Bioengineering, Membrane Technology and Energetics
Responsible department code:	MKBM
Responsible lecturer:	dr. Katalin Bélafiné Bakó

Educational objectives:

The aim of the measurements is to study different bioreactors: periodic fermentors, air-lift reactors, membrane reactors and immobilized cell reactors in groups of 3-4.

Detailed content of the subject:

1. Shaking lombic experiments in incubators
2. Stirring bioreactors with double wall
3. Packed coloum reactors (fluid bed, loop construction)
4. Membrane bioreactors

Requirements:

The accomplishment of the allocated measurements.

Required and suggested references:

Schügerl K.: Bioreaction Engineering vol. II. John Wiley and Sons, 1987.

Douglas S. Clark: Biochemical Engineering, Marcel Dekker Inc. 1997.