VP BBB FATTANTAS PATRICE

UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester: 2012/13/1

Course: Up-to-date biotechnology processes

Code: VEMKBMM446K

Responsible department: Research Institute on Bioengineering, Membrane Technology and Energetics

Department code: MKBME

Responsible instructor: dr. Katalin Bélafiné Bakó

Course objectives:

To introduce students into the up-to-date bioengineering precesses, to describe their characterization.

Course content:

- 1-2. Introduction the fundamentals of biotechnology and bioengineering, enzymes and microbes
- 3-4. Enzyme kinetics complex systems
- 5. Ribozymes
- 6-7. Novel processes in sterile microbial technologies
- 8-9. New trends in bioreactor development
- 10. Extremophiles and their applications
- 11-12. Novel processes in downstream
- 13. Controlling techniques in the 21st century
- 14. Consultation, exam

Requirements, evaluation and grading:

Written and / or oral exam in the end of the course.

Required and recommended readings:

Buchholz, K., Kasche, V., Bornscheuer, U.T.: Biocatalysts and enzyme technology, Wiley, Wienheim, 2005



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Industrial enzymology, Ed. By Godfrey, T., West, T., MacMillan Press, London, 1996