



COURSE DATASHEET

Semester:	2012/13/1
Course:	Environmental biotechnology
Code:	VEMKBMM412K
Responsible department:	Research Institute on Bioengineering, Membrane Technology and Energetics
Department code:	MKBME
Responsible instructor:	Zsófia Eszter Csanádi

Course objectives:

Introduction and presentation of applying possibilities and methods in environmental biotechnology and bioengineering.

Course content:

1. Environmental problems in our days.
- 2-3. Solution possibilities of applied bioprocesses.
4. Application of aerobic and anaerobic bioreactors.
- 5-6. Communal waste water treatment.
- 7-8. Industrial waste water treatment.
9. Solid waste treatment possibilities.
10. Gas-phase waste treatment possibilities (biofilters).
11. Alternative bioenergy resources, bioenergetics.
- 12-13. Bioremediation.
14. Air pollution elimination in bioengineering.



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Requirements, evaluation and grading:

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

Required and recommended readings:

Biotechnology for the Environment: Soil Remediation, (Series: Focus on Biotechnology, Vol. 3B), Agathos, Spiros; Reineke, W. (Eds.), Springer, 2003