



## COURSE DATASHEET

<b>Semester:</b>	2014/15/2
<b>Course:</b>	Environmental biotechnology
<b>Code:</b>	VEMKBMM412K
<b>Responsible department:</b>	Research Institute on Bioengineering, Membrane Technology and Energetics
<b>Department code:</b>	MKBME
<b>Responsible instructor:</b>	dr. Katalin Bélafiné Bakó

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### 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.

### Requirements, evaluation and grading:

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



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**Requirements, evaluation and grading:**



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### Required and recommended readings:

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