



COURSE DATASHEET

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| Semester: | 2016/17/1 |
| Course: | Environmental biotechnology |
| Code: | VEMKBMM412K |
| Responsible department: | Research Institute on Bioengineering, Membrane Technology and Energetics |
| Department code: | MKBME |
| Responsible instructor: | dr. Katalin Bélafiné Bakó |

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 easte 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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Required and recommended readings:

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