



## COURSE DATASHEET

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|--------------------------------|---|
| <b>Semester:</b>               | 2012/13/1                               |
| <b>Course:</b>                 | Environmental-informatics I.            |
| <b>Code:</b>                   | VEMKKVB132I                             |
| <b>Responsible department:</b> | Department of Environmental Engineering |
| <b>Department code:</b>        | MKKV                                    |
| <b>Responsible instructor:</b> | dr. Endre Domokos                       |

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### Course objectives:

The aim of the course is that the students learn use engineering designer and calculus software's. After the successful tests the students can use this software's for their engineering works.

### Course content:

1. Engineering numerical solving software basic: menus, structure 2. Engineering numerical solving software basic: simple calculations 3. Engineering numerical solving software basic: differential equations 4. Engineering numerical solving software basic: programming – conditional branches 5. Engineering numerical solving software basic: programming – cycles 6. Engineering numerical solving software basic: graphics 7. Engineering numerical solving software basic: solver 8. Test 9. Engineering designer software basic: menus, structure 10. Engineering designer software basic: drawing two-dimensional figure 11. Engineering designer software basic: dimensioning 12. Engineering designer software basic: drawing three-dimensional figure 13. Engineering designer software basic: structural attributes 14. Engineering designer software basic: rendering 15. Test

### Requirements, evaluation and grading:

2 tests ( $\geq 50\%$  average)

### Required and recommended readings:

Getting started with Matlab, Version 12, The MathWorks, Inc., 2004 Pintér Miklós: AutoCAD 2004, Felhasználói ismeretek, ComputerBooks Kft., 2004