



## COURSE DATASHEET

<b>Semester:</b>	2013/14/1
<b>Course:</b>	Environmental -statistics
<b>Code:</b>	VEMKKVB221S
<b>Responsible department:</b>	Department of Environmental Engineering
<b>Department code:</b>	MKKV
<b>Responsible instructor:</b>	dr. Endre Domokos

---

### Course objectives:

The main objective: to transfer the basics of statistics. The subject gives enough information for students to do statistic excersises and analysis on their own later on. The semester centres on engineering excersises, it includes barely the economical and any other statistical problems.

### Course content:

1. Definitions, statistical data gathering, empirical dispersion and density graphs. 2. Calculation of average value. 3. Examination of statistical lines, simple calculating methods. 4. Examination of dispersion, relative and absolute dispersion. 5. Types of data, methods of processing data. 6. Calculation methods of quadratic average mean. 7. Written test. (45 minutes) 8. Going throught the solutions of the written test. 9. Basics of theory of probability. 10. Examination of stochastic relations, usage of results in the engineering practice. 11. Prediction and estimation methods, their authenticity. 12. Analysis of variance. 13. Nonparametric-probes. 14. Calculation of regression and linear models. 15. Written test. (45 minutes)

### Requirements, evaluation and grading:

Two written tests based on calculation-examples.

### Required and recommended readings:

Szűcs I. (szerk.): Alkalmazott Statisztika. Agroinform K., Budapest, 2002 Korpás Attiláné (szerk.): Általános statisztika I-II.. Nemzeti Tankönyvkiadó., Bp., 1997 Molnár Máténé dr.-Tóth Mártonné dr.: Általános statisztika példatár I., II., Nemzeti Tankönyvkiadó, Budapest, 2001. Bolla, Krámlí: Statisztikai következtetések elmélete. Typotex, 2005.