

UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester: 2012/13/2

Course: Air Pollution Control Laboratory Practice

Code: VEMKKVT232L

Responsible department: Department of Environmental Engineering

Department code: MKKV

Responsible instructor: Dr. Tatiana Yuzhakova

Course objectives:

To strengthen practical knowledge of students in the planning and application of air pollution control processes

Course content:

The laboratory practices are scheduled for half of semester, once a week, duration of each practice is four hours. The measurements to be done: Measurement of parameters of gas carrying pollution Dust sampling from a closed system, measurement of dust concentration. Measurement of particle size distribution by photosedimentograf and cascade impact method. Measurement of nitrogen oxide immission by impinger method. Measurement of sulfur dioxide immission by impinger method. Field trip to industrial sites of the region, familiarization with air pollution control processes.

Requirements, evaluation and grading:

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Required and recommended readings:

Sipos Zoltán: Ipari levegőtisztaság védelem. Műszaki Könyvkiadó, Budapest. 1987. Woperáné, Serédi Ágnes: SOx és NOx emisszió csökkentése. Debrecen. 1991. Kenneth E. Noll, Vassilios Gounar: Adsorption Technology, Lewis Publishers, Chelsea, 1992. Ronald M. Heck, Robert J. Farrauto: Catalytic Air Pollution Control, Van Nostrand Reinhold, London, 1995. Seymour Calvert, Herold M. Englund: Handbook of air pollution technology, John Wiley & Sons, New York, 1984