UNIVERSITY OF PANNONIA

SUBJECT DATASHEET

Semester:	2009/10/1
Subject:	Air Pollution Control Laboratory Practice
Code:	VEMLKVM432L
Responsible department:	Department of Environmental Engineering
Responsible department code:	MKKV
Responsible lecturer:	Tamás Fülöp

Educational objectives:

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

Detailed content of the subject:

1. Laboratory practices connected to the lecture and seminar materials, investigation of adsorption catalytic processes by using structural methods.
2. Investigation of active sites, acid sites on catalytic surface.
3. Tracking catalytic processes with GC-MS technique.
4. Investigation of exhaust gas cleaning system of motor vehicles.
5. Reduction of nitrogen oxide emission

Requirements:

Measurement accomplishment, preparation of laboratory practice written documentation, pass of theoretical part of practice

Required and suggested references:

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.
Godish Thad: Air Pollution, Lewis Publishers, Chelsea, 1991.
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