UNIVERSITY OF PANNONIA

SUBJECT DATASHEET

Semester:	2010/11/1
Subject:	Physical Chemistry II.
Code:	VEMKFK2114V
Responsible department:	Department of Physical Chemistry
Responsible department code:	MKFK
Responsible lecturer:	dr. András Dallos

Educational objectives:

Teaching physical chemistry via lectures and numerical examples.

Detailed content of the subject:

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Detailed content of the subject:

catalysis. Five step mechanism. 13. Complex reactions. Chain reactions. Explosions. Photochemical reactions. Fast reactions. Collision theory. Reactions in solutions. Transition state theory. 14. Electrochemical reactions. Ion reactions in solutions. Kinetics of electrode reactions. Activation overpotential: Butler-Erdey-Gruz-Volmer equation. Tafel-equation. Diffusion overpotential. Entropy production of chemical reactions. 15. Summary.

Requirements:

At the beginning the examination each student will receive 3 input-questions that assess the student's knowledge of the basics of physical chemistry. Students passing all questions will receive an unconditional pass for the comprehensive exam.

Required and suggested references:

1. Liszi, J.: Fizikai kémia, Veszprém, 1993. Kézirat. 2. Liszi, J., Ruff, I., Schiller, R., Varsányi, Gy.: Bevezetés a fizikai kémiába, Muszaki Könyvkiadó, Budapest, 1993. 3. Moore, J.,W.: Chimica Fisica, Piccin, 1983. 4. Atkins,W.,P.: Physical Chemistry, Oxford University Press, 1990.