



SUBJECT DATASHEET

Semester:	2009/10/1
Subject:	Colloid Chemistry II.
Code:	VEMKFK3212B
Responsible department:	Department of Physical Chemistry
Responsible department code:	MKFK
Responsible lecturer:	dr. Tamás Kristóf

Educational objectives:

Deepening knowledge of colloid chemistry through selected topics and numerical examples.

Detailed content of the subject:

Adsorption of vapour and gas - adsorption theories. Stability of disperse systems. Microemulsions. Liquid crystals II. Effect of polydispersity on equilibrium colloid systems. Magnetic fluids. Membrane processes, osmotic processes, filtration. Mechanical activation by fine grinding. Solubility of polymers, swelling of polymer gels. Complex rheological models, concentrated suspensions. Numerical examples.

Requirements:

None.

Required and suggested references:

1. Juhász A.Zoltán: Kolloidika, Veszprém, 1994. Kézirat. 2. Adamson, A.V.: Physical Chemistry of Surfaces. J. Wiley and Sons, 1976. 3. Szántó Ferenc: A kolloidkémia alapjai. Gondolat, Budapest, 1987.