Programme	Chemistry BSc
Course title	Physical Chemistry (1)
Name of educator	Ernő Keszei, György Inzelt
Type of course	compulsory, semi-optional, elective
Module	non-chemical, core-chemical, specialized chemical, chemistry teacher
Course code	KA2FZ1 + KA2FZ2
Number of credits	3+1
Year of study	1
Semester	fall, spring
Form of tuition	lectures, practice, laboratory practice, other
Course contents	The course presupposes the knowledge acquired during the courses physics (1) and calculus. Based on this knowledge, the course begins with a postulatory development of the basics of phenomenological thermodynamics, with an outlook to the classical foundations of the topic. A more detailed discussion of a number of chemical applications follows, including mixtures, phase equilibria, chemical equilibria and the chemical thermodynamics of electrically charged phases. A brief discussion of the principles of general transport phenomena is followed by some details of diffusion, viscous flow and electric conduction. The focus in applied electrochemistry is on the equilibrium description of galvanic cells.
Assessment method	written/oral examination, practical course mark, other
Recommended reading	P.W. Atkins: Physical Chemistry, 7th edition, Oxford, 1998 H.B. Callen: Thermodynamics, New York, 1985
Language of instruction	Hungarian