Title of Course		Calculation Tasks in Physical Chemistry			
Semester		Autumn/Spring			
Teaching		Total	- Lectures:	- Tutorials:	
<b>Hours per Course:</b>		30	-	30	
<b>ECTS Credits</b>		2			
The content of education					
Aims of	The aim of the course is to obtain skills in the calculation of				
Course	physicochemical properties of pure substances, calculating the				
	thermodynamic functions of the reaction, calculating the composition of				
	the r	the reaction mixture in equilibrium, determining simple kinetic equations,			
	interpretation of phase diagrams of pure and binary systems, using				
	phys	physicochemical tables.			
Program	Calculation of thermodynamic functions, work and heat for ideal gases and				
	condensed phases. Calculation of standard thermodynamic functions of				
	chemical reactions at different temperatures. Phase equilibria for pure				
	compounds (evaporation and melting curve), dependence of enthalpy of				
	evaporation on temperature. Calculation of the composition of the reaction				
		nixture in equilibrium for gaseous and condensed phases. Chemical			
	kine	kinetics. Determination of the reaction order and reaction rate constant.			
Conditions of	Mark is the average from two tests, both tests must be passed.				
completion					
Teacher	Prof. Andrzej Marciniak				