Title of Course		Physical Chemistry			
Semester		Autumn/Spring			
Teaching		Total	- Lectures:	- Tutorials:	
Hours per Course:		45	15	30	
ECTS Credits		3			
The content of education					
Aims of	The aim of the course is to broaden the student's knowledge in the field of				
Course	physi	ysical chemistry, in particular electrochemistry.			
Program	Lectures: Electrochemistry: electrolysis, transfer numbers, ion mobility, Debye-Hückel theory, activity coefficients of electrolyte solutions, cells, batteries, types of electrodes, electromotive force. Thermodynamics of				
electrolytes, SEM measurements as a source of thermodynamic data Methods of group contribution in physicochemical calculations. Est					
	of thermal effects of reactions based on bond energy. Surface tension and related phenomena. Adsorption, adsorption isotherms. Capillary condensation phenomenon. Tutorials: As part of the tutorials, exemplary calculating tasks are solved in order to develop and consolidate the issues presented in the lecture.				
Conditions of	Mark	Mark is the average from lectures (exam) and from tutorials (the average of			
completion	three tests).				
Teacher	Mar	Mariola Nowacka, PhD			