

Level: PhD				
Course title: Selected Topics in Physical Chemistry (DSH602)				
Status: elective				
ECTS: 15				
Requirements: none				
Learning objectives Obtaining profound theoretical and practical knowledge of particular topics of physical chemistry, depending on the subject of the PhD thesis.				
Learning outcomes Students should be able to apply the acquired broad knowledge of the relevant topics of physical chemistry to improve results of the PhD thesis and to gain further education in Chemistry.				
Syllabus <i>Theoretical instruction</i> Structure of molecules and molecular spectra. Behaviour of molecules in electrical field. Optical rotation, ORD and CD. Solid and liquid states of matter. Ideal and real gases. Chemical thermodynamics. Chemical equilibrium. Phase equilibrium. Solutions and mixtures. Surface phenomena. Transport phenomena. Colloids and macromolecules. Electrochemistry. Written project on the chosen subject.				
Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	