

<b>Level:</b> Bachelor				
<b>Course title:</b> Environmental chemistry				
<b>Status:</b> obligatory				
<b>ECTS:</b> 8				
<b>Requirements:</b> none				
<b>Learning objectives</b> To provide students with systematic knowledge of the most important areas of physical chemistry necessary for understanding the physical and chemical processes in the environment.				
<b>Learning outcomes</b> General knowledge and understanding of the state of the matter, energy changes in physical and chemical processes, chemical and physical equilibrium, the processes at interfaces, chemical kinetics and photochemistry.				
<b>Syllabus</b> <i>Theoretical instruction</i> Liquid state. Surface tension and viscosity. Gaseous state. Ideal and real gas state. The laws of thermodynamics, thermochemistry, chemical potential. Chemical equilibrium. Thermodynamic principles of multi-component equilibria. Ideal and dilute solutions. Real solutions. Processes at interfaces. Air-water interface. Soil-water interface. Soil-air interface. Chemical kinetics. Fundamentals of colloidal chemistry. Photochemical processes.  <i>Practical instruction</i> Computational tasks from the major topics in the curriculum.				
<b>Weekly teaching load</b>				Other: -
Lectures: 3	Exercises: 3	Other forms of teaching: -	Student research: -	