

Level: bachelor				
Course title: Fundamental methods of environmental protection technology				
Status: obligatory for OKK elective for OZZS				
ECTS: 9				
Requirements: none				
Learning objectives Acquiring basic knowledge on methods used in environmental protection technologies.				
Learning outcomes Understanding technological processes used in environmental protection technologies.				
Syllabus <i>Theoretical instruction</i> Basic principles of technologies for environmental protection and process engineering. Fundamentals of hydromechanics, diffusion and thermal operations. Kinetics of chemical and biological reactions. Basic principles of chemical and biological reactors. Separation processes (sedimentation, filtration, flotation and membrane processes). Chemical processes (neutralization, chemical sedimentation, oxidation, coagulation and flocculation). Biological processes (aerobic and anaerobic). Diffusion and thermal processes. <i>Practical instruction</i> Practical instructions are in compliance with the theoretical ones.				
Weekly teaching load				Other: /
Lectures: 3(45)	Exercises: 4 (60)	Other forms of teaching: 1(15)	Student research: /	