Subject name	Environmental Chemistry	
Subject code	IS-ECH-7	
Department	Land Reclamation and Peat-Bogs Protection	
Faculty	Environmental Engineering and Land Surveying	
Subject supervisor/Lecturer	Marek Ryczek, Ph.D., Edyta Kruk, Mgr. Eng.	
General information	Teaching period	winter semester
	ECTS credit	6
	Lectures total	15
	Lab practical	30
Objective and general		
description		
Lectures 5 x 3 hours Lab practicals 5 x 3 hours	Fundamentals of chemistry for Environmental chemistry. Cycle of elements in environment. Chemistry of atmosphere. Chemistry of hydrosphere. Chemistry of litosphere. Colloids in environment and their chemistry. Chemistry of solid and liquid waste. Model of environment contamination. Definition of contamination and pollution. Hazardous substances, classification, properties and sources. Processes of transport and diffusion of hazardous substances in air, water and soil. Processes of decay of hazardous substances in environment. Kinetics of reactions. Adsorption in soil and sediment. Chemical methods for contaminants removal from water and soil Analysis, monitoring and evaluation of environmental threat by hazardous substances. Environmental risk assessment.	
References	Indoor contamination	on.