

Level: PhD		
Course Title: Hazardous Waste (advanced course)	Course code:	DZZS-704
Course status: Elective		
ECTS: 15		
Requirement: none		
The course goal Expanding students' knowledge on methods of identifying hazardous wastes and elements of integrated waste management from the generation site to safe disposal or inactivation.		
The course outcome Obtaining general knowledge of the properties of hazardous waste, chemistry of inorganic and organic waste, the impact of waste on the environment and human health, and methods for treatment and safe waste disposal.		
The course content <i>Theoretical study</i> Studying the characteristics of hazardous waste and its impact on safety and health. Chemistry of inorganic and organic wastes and persistent organic components of hazardous waste. Studying methods for handling, treatment and disposal of hazardous waste. Treatment of hazardous waste by physical and chemical processes in order to achieve stabilization and detoxification. Methods of sampling and analysis of hazardous waste for the content of specific organic and inorganic components. The study of basic characteristics of hazardous waste from various branches of the chemical industry, agro-industry and households, with special emphasis on medical and infectious hazardous waste. Legislation. Domestic framework, marking hazardous materials (labels for safety and risks), meeting with USEPA list of waste and the European Waste Catalogue. <i>Practical classes:</i> Project development on a selected topic from the curriculum.		
Number of active teaching hours: 150 (75+75)	Lectures: 5 (75)	Research study work: 5 (75)