

Level: Specialist studies				
Course title: Solid waste (advanced course)				
Status: elective				
ECTS: 5				
Requirements: none				
Learning objectives Improve knowledge of the techniques and technologies of waste treatment and integrated waste management, in order to utilize waste as a raw material for recycling or for energy purposes.				
Learning outcomes Acquire specialized knowledge about the nature of waste, utilization of waste as a source of raw materials or energy, and the importance of recycling and disposal at the landfill.				
Syllabus <i>Theoretical instruction</i> Solid waste as a global problem. Municipal and industrial waste, environmental pollution problems. Exploiting the value of material and energy waste. Analysis of the 3R principles of waste management, which has three components: waste reduction, recycling and reusing. Introducing the 4R and 3E concept of waste. Studying the process of incineration, gasification, pyrolysis, composting and waste deposits and process control in closed landfills. <i>Practical instruction</i> Writing a seminar paper reviewing the current literature.				
Weekly teaching load				Other:
Lectures: 30	Exercises:	Other forms of teaching: 30	Student research:	