

Level: Specialist studies				
Course title: Modern Techniques and Processes in Water Treatment (advanced course)				
Status: elective				
ECTS: 5				
Requirements: none				
Learning objectives Expand and deepen students' knowledge about the modern water treatment.				
Learning outcomes <ul style="list-style-type: none"> • Student will be able to analyze research trends of new techniques and processes from the literature available, • Student will be able to explain mechanism of modern processes, • Student will be able to critically evaluate potential applications in different situations. 				
Syllabus <i>Theoretical instruction</i> Membrane fouling. Enhanced coagulation. Dissolve air flotation. Application of new process materials in modern techniques and water treatment processes. New trends in disinfection. Synthetic permeable collectors. Sludge dewatering. Biofilm. <i>Practical instruction</i> Exercises for seminar work related to trend analysis from available literature, calculations related to process parameters.				
Weekly teaching load				Other:
Lectures: 2	Exercises: 2	Other forms of teaching: -	Student research: -	-