

<b>Level:</b> bachelor			
<b>Course title:</b> Control of emissions of industrial waste streams 1			
<b>Status:</b> obligatory			
<b>ECTS:</b> 8			
<b>Requirements:</b> -			
<b>Learning objectives</b> Students will learn to control emissions of industrial waste streams - waste water, solid and liquid waste and waste gases.			
<b>Learning outcomes</b> Upon successful completion of this course student is able to apply the necessary knowledge about the origin of waste materials in the production process, as well as the technological processes used to treat waste water and waste gas, in order to control the emissions of industrial waste streams.			
<b>Syllabus</b> <i>Theoretical instruction</i> The study of waste streams in the production process. Characteristics of waste streams: wastewater, solid and liquid waste and waste gases. Separation processes, chemical processes, diffusion and thermal processes, biological processes (aerobic, anaerobic), gas purification systems, wastewater treatment systems, solid and liquid waste treatment. <i>Practical instruction</i> Practical instruction follows the theoretical instruction.			
<b>Weekly teaching load</b>			Other:
Lectures: 3 (45)	Exercises: 5 (75)	Other forms of teaching:	Student research: