Level: bachelor

Course title: Industrial wastewater treatment

Status: elective

ECTS: 6

Requirements: none

Learning objectives

Students learn to manage and control the process of purification of industrial waste water.

Learning outcomes

Mastered knowledge about technological processes of wastewater treatment, waste water in the production process and quality control of waste water generated during production. Acquired knowledge to manage wastewater treatment and rational use of water in production processes.

Syllabus

Theoretical instruction

Characterization of industrial wastewater. The best technique for treatment of industrial wastewater (BAT). Limit values for water emissions. Basic principles of industrial wastewater. Methods of wastewater treatment in: agro-industrial complex, the pharmaceutical and chemical industries, oil and petrochemical industries, textile and leather industries, the paper industry, metallurgy and machinery industries. Management systems, purification of industrial waste water. The common treatment of industrial and municipal wastewater.

Practical instruction

Practical instruction follows the theoretical one.

Weekly teaching load				Other:
Lectures: 3	Exercises: 1	Other forms of teaching: 3	Student research:	