

Course: Wastewater treatment

Lectures: Characteristic of municipal wastewater. Receivers of treated wastewater and quality standards of treated wastewater. Mechanical treatment: straining processes on grates and sieves. Sedimentation in grit chambers and in sedimentation tanks, flotation and filtration. Efficiency of mechanical part. Biochemical treatment – aerobic and anaerobic processes; removal of organic and biogenic compounds. Secondary settlement tanks. Advanced methods of wastewater treatment. Characteristics of wastewater treatment devices.

Laboratory: Parameters of raw and treated wastewater, sedimentation in Imhoff funnels, indication of Mohlmann Index, removal of phosphorus from wastewater in the coagulation process, sludge thickening, dewatering and conditioning of sludge.

Project: Technological project of municipal wastewater treatment plant

Responsible person: prof. Sylwia Myszograj

More info:

<https://webapps.uz.zgora.pl/syl/index.php?/course/showCourseDetails/1221829>