

Name of the course	Urban and industrial wastewater treatment and disposal
Number of instruction hours	20
Outline of course/module content	<p>Wastewater quality parameters: definitions, characteristics.</p> <p>Wastewater collection systems. Wastewater treatment: physical, physico-chemical, chemical and biological processes. Advanced wastewater treatment: removal of nitrogen and phosphorus, membrane processes.</p> <p>Sludge and concentrate treatment and disposal.</p> <p>Elements of wastewater treatment process design. Collection of design parameters: laboratory and field investigations. Pilot-plant studies and scale-up procedures.</p> <p>Investigation and evaluation of the treatment plant operation efficiencies.</p> <p>Control of odors and emissions from wastewater treatment plants. Wastewater disposal into the sea. Wastewater reuse.</p>
Description of instruction methods	<p>Lectures</p> <p>Seminar work</p>
Description of course/module requirements	<p>Presentation</p> <p>Oral examination</p>