

# WASTE WATER MANAGEMENT

**LEVEL:** MASTER 1

**PERIOD:** SEMESTER 2

**LANGUAGE:** EN

**ECTS:** 3

**TEACHER/COORDINATOR:** JULIEN CASTELIN



## 1-Main objectives

Upon completion of this course students should be able to understand the big challenges that companies have to face with:

- › the reduction of the water use,
- › the management of the waste water,
- › the re-purposing of treatment by-products.

## 2-Skills developed

Both technical skills and operational skills.

## 3-General content

The course will be illustrated with short practical exercises, to be performed by students, and on-site visits (waste water treatment plant of municipality and company).

The lectures will address the following topics:

- › Industrial water management;
- › Wastewater treatment: principles and implementation;
- › Water reuse, re-purposing of by products, and case studies;
- › Industrial wastewater specific treatment: principles and implementation.

## 4- Evaluation

Individual written exam based on the lectures and case studies done