

COURSE NAME

Name: **PURIFICATION SYSTEMS**

Code: 101155

Curriculum: **DEGREE IN CIVIL ENGINEERING**

Year: 4

Name of the module to which it belongs: HYDROLOGY SPECIFIC TECHNOLOGY MODULE

Subject: SANITARY ENGINEERING

Nature: OBRIGATORY Duration: FIRST SEMESTER

ECTS Credits: 4.5

Classroom hours: 45

Face-to-face classroom percentage: 40%

Non-contact hours: 67.5

FACULTY DETAILS

Name: MORENO PÉREZ, MARÍA FÁTIMA (Coordinator)

Department: AGRONOMY

Area: HYDRAULIC ENGINEERING

Location of the office: EPS Belmez

E-Mail: mfatima@uco.es

Phone number: 957213025

SKILLS

CB1	Have and understand specific knowledge of the field of study of mining engineering.
CB2	Have and understand current and cutting-edge knowledge of the field of mining engineering.
CB3	Be able to apply the knowledge acquired in professional contexts and to elaborate and defend arguments in the field of knowledge of mining engineering.
CB5	Gather and interpret relevant civil engineering data to make judgements that include a reflection on relevant social, scientific or ethical issues.
CB7	Possess the learning skills necessary to undertake studies with a high degree of autonomy.
CU2	Know and refine the user level of ITs.
CU3	Promote active job search habits and entrepreneurship skills.
CEH3	Knowledge of urban services projects related to water distribution and sanitation
CEH4	Knowledge and understanding of supply and sanitation systems, as well as their dimensioning, construction and maintenance.

OBJECTIVES

In this course, students will increase their knowledge of the processes, systems and equipment involved in treating urban wastewater, the fundamental aspects for designing and simulating Wastewater Treatment Plants (WWTP).

CONTENTS:

1. Theoretical contents

TOPIC 1. WASTEWATER TREATMENT
TOPIC 2. PRE-TREATMENT
TOPIC 3. PRIMARY TREATMENT
TOPIC 4. SECONDARY TREATMENT

2. Practical contents.

Exercises and projects related to the theoretical content:

- Pre-treatment
- Primary treatment
- Secondary treatment