

Applied Microbiology, Physico-Chemical basis of Cleaning and Disinfection, Infectious Agents and Risks



SCHOOL

Polytech Graduate School of Engineering



CAMPUS

Santé - Health Campus



LEVEL

3rd year Bachelor's degree



OPEN TO EXCHANGE STUDENTS

Yes



SEMESTER

Fall (S1)

> **Degree course:** Biology and Health System at Bachelor's degree level

> **Teaching unit:** Microbiology, Hygiene and Biological Risks

> **Course language:** English

> **Duration (hours):** 62

> **ECTS:** 7

> **Teacher(s):** Must be requested

> **Assessment:**

Continuous assessment

Final exam

> **Teaching methods:**

Lecture course hours

Tutorial course hours

Practical work hours

Case study

Project

COURSE DESCRIPTION

This course will introduce students to the following subjects:

- 1- Food Microbiology, Hospital Hygiene, Microbiology of Cosmetics and Pharmaceutical Products
- 2- Physico-Chemical basis of Cleaning and Disinfection Programme
- 3- Risks and Infectious Agents Programme

OBJECTIVES

This teaching unit is focused on the study of bacteriological properties and the physiopathology of some microorganisms found in healthcare centres, in agri-food, cosmetics or in the pharmaceutical industries.

The first part of the programme will examine food microbiology, microbial contamination of foods, food poisoning and laboratory tests used in food microbiology.

The second part of the programme is linked to hospital infections and methods used to prevent transmission in healthcare centres.

The third part of the programme will examine the contamination of cosmetics or pharmaceutical products and techniques used in routine to guarantee their safety.

Cleaning aims to eliminate macroscopic or microscopic soils from a surface. This is done by using adequate detergents chosen in function of the soil and substrate. It must help the general hygiene of a sanitary establishment, to control the level of microbiological contamination of the environment or materials in a sustainable way.

PREREQUISITES

Biology, chemistry and physics