

Molecular Detection, Bioinformatics, Biological Markers



SCHOOL

Polytech Graduate School of Engineering



CAMPUS

Santé - Health Campus



LEVEL

3rd year Bachelor's degree



OPEN TO EXCHANGE STUDENTS

Yes



SEMESTER

Spring (S2)

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

> **Teaching unit:** Biology

> **Course language:** English

> **Duration (hours):** 63

> **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 examine PCR, qPCR, sequencing, pyrosequencing, Molecular biology and computer tools, cell signaling, oncogene, tumor suppressor genes, biomarqueurs.

OBJECTIVES

Molecular detection:

At the end of the course, students will have in-depth knowledge of the various techniques of molecular identification of microorganisms and will be able to set a PCR experiment by themselves.

Bioinformatics: This course will give a detailed overview of the computer tool in the field of biology.

Biomarkers: Students will analyse and understand the scientific process. They will understand the molecular and physiological mechanisms of the cell in pathological context and they will analyse scientific and clinical studies to understand the new concepts of modern biology.

PREREQUISITES

biology