

DNA Technology



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:** DNA Technology

> **Course language:** English

> **Duration (hours):** 35

> **ECTS:** 4

> **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

Lectures:

- Restriction enzymes
- Modification enzymes
- Cloning vectors and molecular cloning methods
- cDNA and genomic libraries
- Hybridization technologies (Southern blot, northern blot)

Practical:

Cloning of a DNA fragment, analysis of recombinant plasmids by restriction and/or PCR

OBJECTIVES

This course allows students to acquire theoretical knowledge and practical basic tools to manipulate and to analyse nucleic acids.

PREREQUISITES

Biology