

# Design project



ECTS  
12 credits



Component  
INSTITUT  
NATIONAL  
DES SCIENCES  
APPLIQUEES  
TOULOUSE



Number of  
hours  
233h

## In brief

> **Teaching language(s):** Français, Anglais

## Presentation

### Description

With the help of a tutor, students carry out part of an industrial process design/ This work involves a literature survey, getting technical data and design of the process using acquired knowledge on coupled heat and mass transfer, unit operations and associated processes.

### Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

To allow students to apply their knowledge to the design of a practical project in biochemical engineering.

The student will be able to:

- propose an installation flowsheet
- to write global balances on a process in order to calculate matter and energy flows
- make an critical analysis of a process

### Pre-requisites

Bioreactor ; Unit operations

## Useful info

### Place

> Toulouse