

Unit Operations

 **ECTS**
6 credits

 **Component**
INSTITUT
NATIONAL
DES SCIENCES
APPLIQUEES
TOULOUSE

 **Number of
hours**
89h

In brief

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

heat transfer phenomena: conduction, convection and radiation.

Mass transfer : principles of distillation and absorption

Presentation

The student will be able to:

Size heat and mass exchangers

Description

Fundamental laws of heat transfer phenomena : conduction, convection and radiation. Thermal resistance. Conduction in solids : steady state and transient state. Natural and forced convection. Heat and mass exchanger: theory, calculations, technology.

Useful info

Place

› Toulouse

Organisation:

Lectures, tutorials with exercises (application to bioprocess) and lab works

Objectives

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