

Building devices (thermodynamic devices, electricity)



ECTS
5 crédits



Hourly volume
70h

Introducing

Description

Objectives

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

- The behavior and the design of classical thermodynamic devices used in buildings. (Applied thermodynamic)
- Protection and security techniques used in houses, collective housing or industrial buildings (Electricity)
- How to determine experimentally the energy balance of heating and cooling units (Metrology)

The student will be able to:

- Name and explain the protection and security

techniques used in classical buildings

- Calculate thermodynamic devices efficiency (refrigeration, cogeneration...) and draw the corresponding cycles on thermodynamic charts
- Analyse experimental data and calculate the related uncertainty

Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)

Toulouse