

Faculty of Biological, Agronomic and Environmental Engineering

BIRC2102 Analyse organique II

[52.5h+30h exercises] 6.5 credits

This course is taught in the 2nd semester

Teacher(s): Sonia Collin, Joëlle Leclercq
Language: French
Level: Second cycle

Aims

Acquiring knowledge, know-how and experimental practice of spectroscopic techniques applied on organic compounds.

Main themes

General overview of the four main spectroscopic techniques used for organic compounds analysis : mass spectroscopy, NMR for proton and ¹³C, infra-red spectrometry and UV-visible spectroscopy. For each of them, basic principles, analytical data generated from, examples of organic analyses and analytical equipments are outlined. Beyond the theoretical lecture (2.5 ECTS), 2 ECTS seminars and 2 ECTS practical exercises allow the student to develop skills and expertise necessary for organic compounds identification.

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

- background : BIR1318
- appraisal : exam + identification individual homework
- optionalities : single course (2.5 ECTS) attendance or combined with seminars (4.5 ECTS)

Other credits in programs

BIR22/0C	Deuxième année du programme conduisant au grade de bio-ingénieur: chimie et bio-industries (Technologies & gestion de l'information)	(6.5 credits)	Mandatory
BIR22/1C	Deuxième année du programme conduisant au grade de bio-ingénieur: Chimie et bio-industries (Sciences, technologie & qualité des aliments)	(6.5 credits)	Mandatory
BIR22/2C	Deuxième année du programme conduisant au grade de bio-ingénieur : Chimie et bio-industries (Ingénierie biomoléculaire et cellulaire)	(6.5 credits)	Mandatory
BIR22/3C	Deuxième année du programme conduisant au grade de bio-ingénieur : Chimie et bioindustries (Nanobiotechnologies, matériaux et catalyse)	(6.5 credits)	Mandatory
BIR22/4C	Deuxième année du programme conduisant au grade de bio-ingénieur : Chimie et bio-industries (Technologies environnementales: eau, sol, air)	(6.5 credits)	Mandatory