Study Programme

Academic year 2022-2023

Faculty of Bioscience Engineering

Linking Course Master of Science in Bioindustrial Sciences: Circular Bioprocesstechnology

Campus: Courtray

Language of instruction: Dutch

Programme version 3

1 General Courses — 58 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I610018	Mathematics I	6		1	A:1	180
		Jan Baetens -- Department of Data Analysis and Mathematical Modelling					
2	E610014	Electricity	6		1	A:1	180
		Kurt Stockman -- Department of Electromechanical, Systems and Metal Engineering					
3	E620032	Applied Fluid Mechanics and Thermodynamics	6		1	A:1	180
		Martijn van den Broek -- Department of Electronics and Information Systems					
4	I630045	Chemical Engineering	7		1	A:1	180
		Steven De Meester -- Department of Green Chemistry and Technology					
5	I620023	Sensors and Data Acquisition	5		1	B:1	150
		Sergei Gusev -- Department of Green Chemistry and Technology					
6	I630058	Bioprocess Simulations and Design Tools	5		1	A:1	150
		Stijn Van Hulle -- Department of Green Chemistry and Technology					
7	I620025	Thermal and Mechanical Engineering	5		1	A:2	150
		Joël Hogie -- Department of Green Chemistry and Technology					
8	I630057	Process Control	6		1	A:2	180
		Sergei Gusev -- Department of Green Chemistry and Technology					
9	I630051	Biochemical Engineering	6		1	A:2	180
		Katleen Raes -- Department of Food Technology, Safety and Health					
10	I610019	Mathematics II	6		1	A:2	180
		Jan Baetens -- Department of Data Analysis and Mathematical Modelling					

2 General Courses

Subscribe to 1 module depending on the previous degree from the following list. Subject to approval by the faculty.

2.1 General Courses — 3 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I630019	Biometrics	3		1	A:2	90
		Stijn Luca -- Department of Data Analysis and Mathematical Modelling					

2.1.1 — 14 credits

This module doesn't need to be followed when the student passes the qualification test and can follow the reduced track.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I630046	Environmental Technology I	6		1	A:1	180
		Stijn Van Hulle -- Department of Green Chemistry and Technology					
2	I630044	Environmental Technology II	5		1	A:1	150
		Ann Dumoulin -- Department of Green Chemistry and Technology					
3	I620020	Environmental Microbiology	3		1	A:2	90
		Diederik Rousseau -- Department of Green Chemistry and Technology					

2.2 General Courses — 30 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I630043	Chemical Conversions of Biological Raw Material	5		1	A:1	150
		Katleen Raes -- Department of Food Technology, Safety and Health					

2	I620018	Physico-Chemistry	5	1	A:2	150
		Stijn Van Hulle -- Department of Green Chemistry and Technology				
3	I620019	Organic Chemistry II	4	1	A:1	120
		Christophe Wille -- Department of Food Technology, Safety and Health				
4	I630059	Hygienic Design and Cleaning & Disinfection	5	1	A:2	150
		Imca Sampers -- Department of Food Technology, Safety and Health				
5	E610016	Physics	5	1	B:2	150
		Michael Monte -- Department of Electromechanical, Systems and Metal Engineering				
6	I610017	Microbial System and Virology	3	1	A:2	90
		Christophe Wille -- Department of Food Technology, Safety and Health				
7	I620020	Environmental Microbiology	3	1	A:2	90
		Diederik Rousseau -- Department of Green Chemistry and Technology				

Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the cours name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Kroatian/Serbian	zh: Chinese
cs: Czech	el: Greek	fr: French	nl: Dutch	pt: Portuguese	sl: Slovene	
da: Danish	en: English	it: Italian	no: Norwegian	ru: Russian	sv: Swedish	

Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2.
When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned.
When a semester is shown in brackets, the course in not offered this year in the specific offering.
The offering frequency and first year of offering are indicated by the following codes:

a: bi-annually	c: annually, from 2023-2024	f: annually, from 2024-2025	i: annually, from 2025-2026
b: tri-annually	d: bi-annually, from 2023-2024	g: bi-annually, from 2024-2025	j: bi-annually, from 2025-2026
	e: tri-annually, from 2023-2024	h: tri-annually, from 2024-2025	k: tri-annually, from 2025-2026