GHENT UNIVERSITY

Study Programme

Academic year 2024-2025

Faculty of Bioscience Engineering

Linking Course Master of Science in Bioindustrial Sciences: Circular Bioprocesstechnology

Campus: Courtray

Language of instruction: Dutch

Programme version 5

1 General Courses 40 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I610018	Mathematics I Jan Baetens -- Department of Data Analysis and Mathematical Modelling	6		1	A:1	180
2	I620034	Programming Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling	3		1	A:1	90
3	E620032	Applied Fluid Mechanics and Thermodynamics Martijn van den Broek -- Department of Electronics and Information Systems	6		1	A:1	180
4	I640043	Sustainability Assessment Steven De Meester -- Department of Green Chemistry and Technology	3		1	A:1	90
5	I610019	Mathematics II Jan Baetens -- Department of Data Analysis and Mathematical Modelling	6		1	A:2	180
6	E610055	Electronics Sam Lemey -- Department of Information Technology	3		1	A:2	90
7	I620033	Thermal Engineering Joël Hogie -- Department of Green Chemistry and Technology	4		1	A:2	120
8	I620032	Smart Sensors Sergei Gusev -- Department of Green Chemistry and Technology	6		1	A:2	180
9	I630061	Methodology Diederik Rousseau -- Department of Green Chemistry and Technology	3		1	A:2	90

2 General Courses

2.1 20 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E610019	Materials Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering	3		1	A:1	90
2	I610021	Technology for Circular Economy Diederik Rousseau -- Department of Green Chemistry and Technology	3		1	A:2	90
3	I630051	Biochemical Engineering Katleen Raes -- Department of Food Technology, Safety and Health	6		1	A:2	180
4	I630067	Sustainable Materials Ann Dumoulin -- Department of Green Chemistry and Technology	5		1	A:1	150
5	I630062	Portfolio Internationalisation Diederik Rousseau -- Department of Green Chemistry and Technology	3		1	A:J	90

2.1.1 13 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	I630045	Chemical Engineering Steven De Meester -- Department of Green Chemistry and Technology	7		1	A:1	180
2	I630065	Resource Recovery Stijn Van Hulle -- Department of Green Chemistry and Technology	6		1	A:2	180

2.2 21 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I630019	Biometrics Stijn Luca -- Department of Data Analysis and Mathematical Modelling	3		1	A:2	90
2	I630064	Process Control Sergei Gusev -- Department of Green Chemistry and Technology	5		1	A:1	150
3	I630051	Biochemical Engineering Katleen Raes -- Department of Food Technology, Safety and Health	6		1	A:2	180
4	I630068	Sustainable Energy Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering	4		1	A:2	120
5	I630062	Portfolio Internationalisation Diederik Rousseau -- Department of Green Chemistry and Technology	3		1	A:J	90

2.2.1 16 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	I630063	Circular Water Technology Stijn Van Hulle -- Department of Green Chemistry and Technology	5		1	A:1	150
2	I630065	Resource Recovery Stijn Van Hulle -- Department of Green Chemistry and Technology	6		1	A:2	180
3	I630067	Sustainable Materials Ann Dumoulin -- Department of Green Chemistry and Technology	5		1	A:1	150

2.3 19 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I610021	Technology for Circular Economy Diederik Rousseau -- Department of Green Chemistry and Technology	3		1	A:2	90
2	I630019	Biometrics Stijn Luca -- Department of Data Analysis and Mathematical Modelling	3		1	A:2	90
3	I630051	Biochemical Engineering Katleen Raes -- Department of Food Technology, Safety and Health	6		1	A:2	180
4	I630062	Portfolio Internationalisation Diederik Rousseau -- Department of Green Chemistry and Technology	3		1	A:J	90
5	I630068	Sustainable Energy Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering	4		1	A:2	120

2.3.1 16 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	I630063	Circular Water Technology Stijn Van Hulle -- Department of Green Chemistry and Technology	5		1	A:1	150
2	I630065	Resource Recovery Stijn Van Hulle -- Department of Green Chemistry and Technology	6		1	A:2	180
3	I630067	Sustainable Materials Ann Dumoulin -- Department of Green Chemistry and Technology	5		1	A:1	150

2.4 50 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E610013	Mechanics Michael Monte -- Department of Electromechanical, Systems and Metal Engineering	6		1	A:J	180
2	E610019	Materials Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering	3		1	A:1	90
3	I610021	Technology for Circular Economy Diederik Rousseau -- Department of Green Chemistry and Technology	3		1	A:2	90
4	I630019	Biometrics Stijn Luca -- Department of Data Analysis and Mathematical Modelling	3		1	A:2	90
5	I630063	Circular Water Technology Stijn Van Hulle -- Department of Green Chemistry and Technology	5		1	A:1	150
6	I630045	Chemical Engineering Steven De Meester -- Department of Green Chemistry and Technology	7		1	A:1	180

7	I630064	Process Control Sergei Gusev -- Department of Green Chemistry and Technology	5	1	A:1	150
8	I630062	Portfolio Internationalisation Diederik Rousseau -- Department of Green Chemistry and Technology	3	1	A:J	90
9	I630067	Sustainable Materials Ann Dumoulin -- Department of Green Chemistry and Technology	5	1	A:1	150
10	I630068	Sustainable Energy Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering	4	1	A:2	120
11	I630065	Resource Recovery Stijn Van Hulle -- Department of Green Chemistry and Technology	6	1	A:2	180

2.5 50 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E610013	Mechanics Michael Monte -- Department of Electromechanical, Systems and Metal Engineering	6		1	A:J	180
2	E610019	Materials Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering	3		1	A:1	90
3	E610016	Physics Michael Monte -- Department of Electromechanical, Systems and Metal Engineering	5		1	B:2	150
4	I630019	Biometrics Stijn Luca -- Department of Data Analysis and Mathematical Modelling	3		1	A:2	90
5	I620031	Physico-Chemistry Stijn Van Hulle -- Department of Green Chemistry and Technology	6		1	A:2	180
6	I630063	Circular Water Technology Stijn Van Hulle -- Department of Green Chemistry and Technology	5		1	A:1	150
7	I630045	Chemical Engineering Steven De Meester -- Department of Green Chemistry and Technology	7		1	A:1	180
8	I630067	Sustainable Materials Ann Dumoulin -- Department of Green Chemistry and Technology	5		1	A:1	150
9	I630065	Resource Recovery Stijn Van Hulle -- Department of Green Chemistry and Technology	6		1	A:2	180
10	I630068	Sustainable Energy Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering	4		1	A:2	120

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 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028