Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture
Bachelor of Science in Engineering Technology -- Chemical Engineering Technology

Language of instruction: Dutch

Programme version 4

1 General Courses — 60 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E701033	Mathematics I	6		1	A:1	180
		Tanja Van Hecke -- Department of Information Technology					
2	E701023	General Chemistry	6		1	A:1	180
		Maarten Sabbe -- Department of Materials, Textiles and Chemical Engineering					
3	E701024	Electricity	6		1	A:1	180
		Luc Dupré -- Department of Electromechanical, Systems and Metal Engineering					
4	E701051	Design Tools	4		1	A:1	120
		Kathleen Gekiere -- Department of Structural Engineering and Building Materials					
5	E701029	Materials	3		1	A:1	90
		Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering					
6	E701030	Mechanics	6		1	A:J	180
		Tom Claessens -- Department of Materials, Textiles and Chemical Engineering					
7	E701052	Engineering Project	5		1	A:J	150
		Kathleen Gekiere -- Department of Structural Engineering and Building Materials					
8	E701034	Mathematics II	6		1	A:2	180
		Tanja Van Hecke -- Department of Information Technology					
9	E701056	Physics	6		1	A:2	180
		Sven Van Loo -- Department of Applied Physics					
10	E701053	Computer Science	6		1	A:2	180
		Helga Naessens -- Department of Information Technology					
11	E701054	Sustainable Energy Technologies	3		1	A:2	90
		Johan Lauwaert -- Department of Electronics and Information Systems					
12	E701055	Electronics	3		1	A:2	90
		Jo Verhaevert -- Department of Information Technology					

2 General Courses — 15 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E702010	Signals and Systems	6		2	A:1	180
		Jan Beyens -- Department of Information Technology					
2	E702090	Statistics and Mathematical Data-analysis	6		2	A:2	180
		Tanja Van Hecke -- Department of Information Technology					
3	E702702	Business Administration	3		2	A:2	90
		Birger Raa -- Department of Industrial Systems Engineering and Product Design					

3 Courses Related to the Main Subject — 102 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E702080	Thermodynamics and Fluid Mechanics	6		2	A:1	180
		Tom Claessens -- Department of Materials, Textiles and Chemical Engineering					
2	E702070	Physics of Waves and Particles	3		2	A:1	90
		Sven Van Loo -- Department of Applied Physics					
3	E721046	Environmental Management	3		2	A:1	90
		Diederik Rousseau -- Department of Green Chemistry and Technology					

			CRDT	MT1	Ref	Session	Study
4	E721020	Chemical Analysis/Standardization	3	2		A:1	90
		Greta Diricks -- Department of Materials, Textiles and Chemical Engineering					
5	E721024	Chemical Process Balances	3	2		A:1	90
		Jeriffa De Clercq -- Department of Materials, Textiles and Chemical Engineering					
6	E721021	Organic Chemistry I	6	2		A:1	180
		An Verberckmoes -- Department of Materials, Textiles and Chemical Engineering					
7	E721019	Research Methodology	3	2		A:2	90
		Jeroen Lauwaert -- Department of Materials, Textiles and Chemical Engineering					
8	E721050	Organic Chemistry II and Biochemistry	9	2		A:2	270
		An Verberckmoes -- Department of Materials, Textiles and Chemical Engineering					
9	E721039	Inorganic Chemistry	6	2		A:2	162
		Jeroen Lauwaert -- Department of Materials, Textiles and Chemical Engineering					
10	E721025	Multidisciplinary Engineering Project	3	2		A:2	90
		Jeriffa De Clercq -- Department of Materials, Textiles and Chemical Engineering					
11	E721026	Analytical Chemistry	6	3		A:1	180
		Stefan Voorspoels -- Department of Materials, Textiles and Chemical Engineering					
12	E721040	Physical Chemistry	5	3		A:1	150
		Maarten Sabbe -- Department of Materials, Textiles and Chemical Engineering					
13	E721041	Spectroscopy	6	3		A:1	180
		An Verberckmoes -- Department of Materials, Textiles and Chemical Engineering					
14	E721029	Polymers	4	3		A:1	120
		Filip Du Prez -- Department of Organic Chemistry					
15	E721044	Environmental Engineering: water and air	3	3		A:1	90
		Joris Thybaut -- Department of Materials, Textiles and Chemical Engineering					
16	E721047	Thermal operations	3	3		A:1	90
		Jeriffa De Clercq -- Department of Materials, Textiles and Chemical Engineering					
17	E741023	Control Theory	6	3		A:2	180
		Jan Beyens -- Department of Information Technology					
18	E721048	Unit Operations of Chemical Engineering	9	3		A:2	270
		Jeriffa De Clercq -- Department of Materials, Textiles and Chemical Engineering					
19	E721042	Instrumental Analysis	6	3		A:2	180
		Joeri Vercammen -- Department of Materials, Textiles and Chemical Engineering					
20	E721033	Industrial Inorganic Chemistry	3	3		A:2	90
		Maarten Sabbe -- Department of Materials, Textiles and Chemical Engineering					
21	E721038	Bachelor Thesis	6	3		A:2	180
		An Verberckmoes -- Department of Materials, Textiles and Chemical Engineering					

4 Elective Courses — 3 credits

Subscribe to course units from the following list, distributed over the first standard learning path as follows: 3 credit units in year 3.
Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E076450	Basic Entrepreneurship	3	UKV	3	A:1	90
2	E075060	Philosophy and Science	3		3		90
3	A003001	Academic English [en]	3	UKV	3	B:1, A:2	90
		Geert Jacobs -- Department of Linguistics					

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