

Faculty of Engineering and Architecture

Bachelor of Science in Engineering Technology -- Chemical Engineering Technology

Language of instruction: Dutch

Programme version 5

## 1 General Courses 60 credits

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

## 2 General Courses 15 credits

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

## 3 Courses Related to the Main Subject 102 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E702080 Thermodynamics and Fluid Mechanics <i>Tom Claessens -- Department of Materials, Textiles and Chemical Engineering</i>	6		2	A:1	180
2	E702070 Physics of Waves and Particles <i>Sven Van Loo -- Department of Applied Physics</i>	3		2	A:1	90

3	E721046	Environmental Management <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3	2	A:1	90
4	E721020	Chemical Analysis/Standardization <i>Greta Diricks -- Department of Materials, Textiles and Chemical Engineering</i>	3	2	A:1	90
5	E721024	Chemical Process Balances <i>Jeriffa De Clercq -- Department of Materials, Textiles and Chemical Engineering</i>	3	2	A:1	90
6	E721021	Organic Chemistry I <i>An Verberckmoes -- Department of Materials, Textiles and Chemical Engineering</i>	6	2	A:1	180
7	E721019	Research Methodology <i>Jeroen Lauwaert -- Department of Materials, Textiles and Chemical Engineering</i>	3	2	A:2	90
8	E721050	Organic Chemistry II and Biochemistry <i>An Verberckmoes -- Department of Materials, Textiles and Chemical Engineering</i>	9	2	A:2	270
9	E721039	Inorganic Chemistry <i>Jeroen Lauwaert -- Department of Materials, Textiles and Chemical Engineering</i>	6	2	A:2	162
10	E721025	Multidisciplinary Engineering Project <i>Jeriffa De Clercq -- Department of Materials, Textiles and Chemical Engineering</i>	3	2	A:2	90
11	E721026	Analytical Chemistry <i>Stefan Voorspoels -- Department of Materials, Textiles and Chemical Engineering</i>	6	3	A:1	180
12	E721040	Physical Chemistry <i>Maarten Sabbe -- Department of Materials, Textiles and Chemical Engineering</i>	5	3	A:1	150
13	E721041	Spectroscopy <i>An Verberckmoes -- Department of Materials, Textiles and Chemical Engineering</i>	6	3	A:1	180
14	E721029	Polymers <i>Filip Du Prez -- Department of Organic Chemistry</i>	4	3	A:1	120
15	E721044	Environmental Engineering: water and air <i>Joris Thybaut -- Department of Materials, Textiles and Chemical Engineering</i>	3	3	A:1	90
16	E721047	Thermal operations <i>Jeriffa De Clercq -- Department of Materials, Textiles and Chemical Engineering</i>	3	3	A:1	90
17	E741023	Control Theory <i>Jan Beyens -- Department of Information Technology</i>	6	3	A:2	180
18	E721048	Unit Operations of Chemical Engineering <i>Jeriffa De Clercq -- Department of Materials, Textiles and Chemical Engineering</i>	9	3	A:2	270
19	E721042	Instrumental Analysis <i>Joeri Vercammen -- Department of Materials, Textiles and Chemical Engineering</i>	6	3	A:2	180
20	E721033	Industrial Inorganic Chemistry <i>Maarten Sabbe -- Department of Materials, Textiles and Chemical Engineering</i>	3	3	A:2	90
21	E721038	Bachelor Thesis <i>An Verberckmoes -- Department of Materials, Textiles and Chemical Engineering</i>	6	3	A:2	180

## 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	C004009 History and Philosophy of Sciences <i>Maarten Van Dyck -- Department of Philosophy and Moral Sciences</i>	3		3	B:2	90
3	A003001 Academic English [en] <i>Geert Jacobs -- Department of Linguistics</i>	3	UKV	3	B:1, A:2	90

## 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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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 is 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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	g: bi-annually, from 2027-2028	j: bi-annually, from 2028-2029
	e: tri-annually, from 2026-2027	h: tri-annually, from 2027-2028	k: tri-annually, from 2028-2029