

Faculty of Engineering and Architecture

Bachelor of Science in Engineering Technology -- Electromechanical Engineering Technology

Language of instruction: Dutch

Programme version 3

## 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>Christophe Leys -- 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 Verhaevert -- 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>Ludo Poelaert -- Department of Industrial Systems Engineering and Product Design</i>	3		3	A:2	90

## 3 Courses Related to the Main Subject 105 credits

### 3.1 Courses Related to the Main Subject Electromechanical Engineering Technology 80 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	E702030	Mechanics of Materials <i>Marc Wouters -- Department of Materials, Textiles and Chemical Engineering</i>	3	2	A:1	90
3	E702040	Electronics II <i>Stefaan Lambrecht -- Department of Information Technology</i>	6	2	A:1	180
4	E741044	Electrical Energy <i>Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering</i>	5	2	A:1	150
5	E741047	Electrical Measuring Techniques <i>Mathias Kersemans -- Department of Materials, Textiles and Chemical Engineering</i>	4	2	A:1	120
6	E702060	Signals and Systems II <i>Jan Beyens -- Department of Information Technology</i>	3	2	A:2	90
7	E741048	Machine Components <i>Patrick De Baets -- Department of Electromechanical, Systems and Metal Engineering</i>	3	2	A:2	90
8	E741049	Industrial project <i>Guy Foubert -- Department of Materials, Textiles and Chemical Engineering</i>	3	2	A:2	90
9	E741050	Fluid machines <i>Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering</i>	3	2	A:2	90
10	E741026	Electrical Design of Industrial Installations <i>Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering</i>	6	2	A:2	180
11	E741027	CAD and Manufacturing Techniques <i>Jan De Strooper -- Department of Electromechanical, Systems and Metal Engineering</i>	6	2	A:2	180
12	E741034	Pneumatic and Hydraulic Drives <i>Jan De Strooper -- Department of Electromechanical, Systems and Metal Engineering</i>	6	3	A:1	180
13	E741051	PLC I <i>Tim Saillé -- Department of Electromechanical, Systems and Metal Engineering</i>	5	3	A:1	140
14	E741052	Electromechanical drive systems <i>Hendrik Vansompel -- Department of Electromechanical, Systems and Metal Engineering</i>	3	3	A:1	90
15	E741023	Control Theory <i>Jan Beyens -- Department of Information Technology</i>	6	3	A:2	180
16	E741046	Electric Drives <i>Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering</i>	6	3	A:2	180
17	E741053	Bachelor Thesis <i>Tom Claessens -- Department of Materials, Textiles and Chemical Engineering</i>	6	3	A:2	180

### 3.2 Major Mechanics or Major Electrotechnology and Automation

25 credits

Subscribe to 25 credit units from 1 major from the following list. Subject to approval by the faculty.

#### 3.2.1 Major Mechanics

25 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E741031 Applied Materials Science <i>Inge Bellemans -- Department of Materials, Textiles and Chemical Engineering</i>	3		3	A:1	90
2	E741054 Advanced Machine Components <i>Patrick De Baets -- Department of Electromechanical, Systems and Metal Engineering</i>	5		3	A:1	150
3	E741035 CAD Applications <i>Stijn Hertelé -- Department of Electromechanical, Systems and Metal Engineering</i>	3		3	B:1	90
4	E741055 Mechanics of Materials and FEM <i>Marc Wouters -- Department of Materials, Textiles and Chemical Engineering</i>	5		3	A:1	150
5	E741056 Manufacturing Technology <i>Kris Hectors -- Department of Electromechanical, Systems and Metal Engineering</i>	5		3	A:2	150
6	E741057 Thermal Energy: Installation Components <i>Wim Beyne -- Department of Electromechanical, Systems and Metal Engineering</i>	4		3	A:2	120

#### 3.2.2 Major Electrotechnology and Automation

25 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E741058 Programming in C <i>Helga Naessens -- Department of Information Technology</i>	3		3	A:1	90
2	E741039 CAD Electrotechnology <i>Tim Saillé -- Department of Electromechanical, Systems and Metal Engineering</i>	3		3	A:1	90
3	E741059 Integration of Renewable Energy <i>Jan Desmet -- Department of Electromechanical, Systems and Metal Engineering</i>	3		3	A:1	90

4	E741060	Object oriented programming in C# <i>Veerle Ongenae -- Department of Information Technology</i>	4	3	A:1	120
5	E745006	Industrial Communication <i>Jo Verhaever -- Department of Information Technology</i>	3	3	A:1	85
6	E731018	Embedded Systems: Microcontrollers <i>Patrick Van Torre -- Department of Information Technology</i>	6	3	A:2	180
7	E741041	PLC II <i>Tim Saillé -- Department of Electromechanical, Systems and Metal Engineering</i>	3	3	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 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