

Faculty of Engineering and Architecture

Master of Science in Electromechanical Engineering Technology

Language of instruction: Dutch

Programme version 13

## 1 General Courses 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E745022 Data Aquisition <i>Guillaume Crevecoeur -- Department of Electromechanical, Systems and Metal Engineering</i>	3		1	A:1	90
2	E745024 Advanced Electric Drives <i>Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering</i>	3		1	B:1	85
3	E725090 Manufacturing Processes <i>Kris Hectors -- Department of Electromechanical, Systems and Metal Engineering</i>	3		1	A:1	90
4	E745030 CAE Applications <i>Marc Wouters -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	A:1	180
5	E725019 Polymer Processing [en] <i>Ludwig Cardon -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	A:1	180
6	E745025 Applied Metallurgy [en, nl] <i>Tom Depover -- Department of Materials, Textiles and Chemical Engineering</i>	3		1	A:2	90
7	E741070 Thermal Energy: Sustainable Application in Industry and Buildings <i>Steven Lecompte -- Department of Electromechanical, Systems and Metal Engineering</i>	6		1	A:2	180

## 2 Elective Courses 12 credits

Subscribe to 12 credit units from 2 modules from the following list. Subject to approval by the faculty.

### 2.1 Technological Electives

Subscribe to no less than 6 credit units from the following list. Subject to approval by the faculty.

Only one course with reference a is allowed.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E725070 Mould Making [en] <i>Ludwig Cardon -- Department of Materials, Textiles and Chemical Engineering</i>	6			A:2	180
2	E725050 Product Development and Additive Manufacturing [en] <i>Ludwig Cardon -- Department of Materials, Textiles and Chemical Engineering</i>	3			A:1	90
3	E725110 Polymer and Composite Materials [en] <i>Mariya Edeleva -- Department of Materials, Textiles and Chemical Engineering</i>	3			A:2	90
4	E745040 CAM Applications <i>Kris Hectors -- Department of Electromechanical, Systems and Metal Engineering</i>	3			A:1	90
5	E900069 Composites [en] <i>Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering</i>	6			A:1	180
6	E045240 Computational Fluid Dynamics [en] <i>Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering</i>	4			C:2	120
7	E056600 Construction Techniques [en] <i>Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering</i>	3			C:2	90
8	E731018 Embedded Systems: Microcontrollers <i>Patrick Van Torre -- Department of Information Technology</i>	6			A:2	180
9	E745006 Industrial Communication <i>Jo Verhaevert -- Department of Information Technology</i>	3			A:1	85
10	E755008 Production of Electrical Energy <i>Christof Dauwels -- Department of Electromechanical, Systems and Metal Engineering</i>	3			A:1	85

11	E053642	Railway Technology Fundamentals [en] <i>Hendrik Bonne -- Department of Electromechanical, Systems and Metal Engineering</i>	3		A:1	90
12	E053643	Advanced Railway Technology [en] <i>Hendrik Bonne -- Department of Electromechanical, Systems and Metal Engineering</i>	3		A:2	90
13	E721046	Environmental Management <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3		A:1	90
14	E745027	Sustainable Engineering Techniques [en] <i>Tom Depover -- Department of Materials, Textiles and Chemical Engineering</i>	3		A:1	90
15	I002702	Clean Technology: Assessment Methods [en] <i>Sophie Huysveld -- Department of Green Chemistry and Technology</i>	3		A:1	90
16	E745050	Vehicle Technology <i>Frédéric Maes -- Department of Electromechanical, Systems and Metal Engineering</i>	3		A:2	90
17	E773770	Maintenance and Shutdown in the Process Industry [en] <i>Paul Van Steenberge -- Department of Materials, Textiles and Chemical Engineering</i>	3		A:1	90
18	E099600	Industry Internship Engineering Technology [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	6	a	A:J	180
19	E099600	Industry Internship Engineering Technology [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	3	a	B:J	90
20	E099400	Research Internship [en] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	6	a	A:J	180
21	E099400	Research Internship [en] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	3	a	B:J	90
22	E098010	Integrated Portfolio [en, nl] <i>Hiep Luong -- Department of Telecommunications and Information Processing</i>	3	a	B:J	90

## 2.2 Non-Technological Electives

Subscribe to no more than 6 credit units from the following list. Subject to approval by the faculty.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E076450 Basic Entrepreneurship <i>Yannick Dillen -- Department of Marketing, Innovation and Organisation</i>	3	UKV		A:1	90
2	E076460 Dare to Venture [en] <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i>	4			A:2	120
3	E076471 Dare to Start [en] <i>Wouter Haerick -- Department of Information Technology</i>	3			A:2	90
4	E076431 Introduction to Entrepreneurship [en] <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i>	3			A:1	90
5	A003001 Academic English [en] <i>Geert Jacobs -- Department of Linguistics</i>	3	UKV		B:1, A:2	90

## 3 Master's Dissertation

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E705002 Master's Dissertation	18		1	A:J	540

## 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 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