

Study Programme

Academic year 2023-2024

Faculty of Engineering and Architecture

Master of Science in Electromechanical Engineering Technology

Language of instruction: Dutch

Programme version 12

1 Gen	1 General Courses 30 cr					
Nr Cours		CRDT Ref	MT1	Session	Study	
1 E7450	22 Data Aquisition Guillaume Crevecoeur Department of Electromechanical, Systems and Metal Engineering	3	1	A:1	90	
2 E7450	24 Advanced Electric Drives Peter Sergeant Department of Electromechanical, Systems and Metal Engineering	3	1	B:1	85	
3 E7250	Manufacturing Processes Wim De Waele Department of Electromechanical, Systems and Metal Engineering	3	1	A:1	90	
4 E7450	30 CAE Applications Marc Wouters Department of Materials, Textiles and Chemical Engineering	6	1	A:1	180	
5 E7250	19 Polymer Processing [en] Ludwig Cardon Department of Materials, Textiles and Chemical Engineering	6	1	A:1	180	
6 E7450	25 Applied Metallurgy [en, nl] Roumen Petrov Department of Electromechanical, Systems and Metal Engineering	3	1	A:2	90	
7 E7410	70 Thermal Energy: Sustainable Application in Industry and Buildings Steven Lecompte Department of Electromechanical, Systems and Metal Engineering	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 6 credits with reference a are allowed.

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

10-05-2025 12:02 p 1

11	E053642	Railway Technology Fundamentals [en] Hendrik Bonne Department of Electromechanical, Systems and Metal Engineering	3			A:1	90
12	E053643	Advanced Railway Technology [en] Hendrik Bonne Department of Electromechanical, Systems and Metal Engineering	3			A:2	90
13	E721046	Environmental Management Diederik Rousseau Department of Green Chemistry and Technology	3			A:1	90
14	E745027	Sustainable Engineering Techniques [en] Tom Depover Department of Materials, Textiles and Chemical Engineering	3			A:1	90
15	1002702	Clean Technology: Assessment Methods [en] Sophie Huysveld Department of Green Chemistry and Technology	3			A:1	90
16	E745050	Vehicle Technology Frédéric Maes Department of Electromechanical, Systems and Metal Engineering	3			A:2	90
17	E773770	Maintenance and Shutdown in the Process Industry [en] Paul Van Steenberge Department of Materials, Textiles and Chemical Engineering	3			A:1	90
18	E099600	Industry Internship Engineering Technology [en, nl] Patrick Segers Department of Electronics and Information Systems	6	а		A:J	180
19	E099600	Industry Internship Engineering Technology [en, nl] Patrick Segers Department of Electronics and Information Systems	3	а		B:J	90
20	E099400	Research Internship [en] Patrick Segers Department of Electronics and Information Systems	6	а		A:J	180
21	E099400	Research Internship [en] Patrick Segers Department of Electronics and Information Systems	3	а		B:J	90
2.2	2 Non-Te	echnological Electives					
		more than 6 credit units from the following list. Subject to approval by the					
	Course		CRDT	Ref	MT1	Session	Study
1	E076450	Basic Entrepreneurship Yannick Dillen Department of Marketing, Innovation and Organisation	3	UKV		A:1	90
2	E076460	Dare to Venture [en] Johan Verrue Department of Marketing, Innovation and Organisation	4			A:2	120
3	E076471	Dare to Start [en] Frank Gielen Department of Information Technology	3			A:2	90
4	E076431	Introduction to Entrepreneurship [en] Petra Andries Department of Marketing, Innovation and Organisation	3			A:1	90
5	A003001	Academic English [en] Geert Jacobs Department of Linguistics	3	UKV		B:1, A:2	90
6	K001339	Sustainability Thinking Thomas Block Department of Political Sciences	5	UKV		A:J	150
3	Master's	s Dissertation				18 (credits
Nr	Course		CRDT	Ref	MT1	Session	Study
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10-05-2025 12:02 p 2

18

1 E705002 Master's Dissertation

B:J

540

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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

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 2024-2025 f: annually, from 2025-2026 i: annually, from 2026-2027 b: tri-annually d: bi-annually, from 2024-2025 g: bi-annually, from 2025-2026 j: bi-annually, from 2026-2027 e: tri-annually, from 2024-2025 h: tri-annually, from 2025-2026 k: tri-annually, from 2026-2027

10-05-2025 12:02 p 3