

Faculty of Engineering and Architecture

Master of Science in Electronics and ICT Engineering Technology -- Electronics Engineering

Language of instruction: Dutch

Programme version 12

1 General Courses 12 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E735025 Multimedia Bart Goossens -- Department of Telecommunications and Information Processing	6		1	A:1	180
2	E735019 Wireless and Mobile Communication Jo Verhaever -- Department of Information Technology	6		1	A:1	180

2 Courses Related to the Main Subject 33 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E735026 Analogue Design Patrick Van Torre -- Department of Information Technology	6		1	A:1	180
2	E735040 Sensors and Interfacing Jeroen Missinne -- Department of Electronics and Information Systems	6		1	A:1	180
3	E735032 High-frequency Techniques and EMC Günter Vermeeren -- Department of Information Technology	3		1	A:2	90

2.1 Master's Dissertation 18.0 credits

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

3 Elective Courses 15 credits

Subscribe to 15 credit units from no less than 2 and no more than 3 elective course list from the following list. Subject to approval by the faculty.

3.1 Elective Courses Electronics

Subscribe to no less than 6 and no more than 12 credit units from the following list. Subject to approval by the faculty.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E735050 System on Chip Design Lieven Tytgat -- Department of Electronics and Information Systems	6			A:1	180
2	E735034 Transmission Lines Emmeric Tanghe -- Department of Information Technology	3			A:1	90
3	E735027 Biomedical Electronics Paul Devos -- Department of Information Technology	3			A:1	90
4	E735021 Characterisation of Semiconductor Components and Electronic Devices Johan Lauwaert -- Department of Electronics and Information Systems	3			A:2	90
5	E735031 Waves and Antennas Günter Vermeeren -- Department of Information Technology	3			A:2	90
6	E735033 Electronic Measurements and EMC Guy Torfs -- Department of Information Technology	3			A:2	90

3.2 Elective Courses ICT or Embedded Systems

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

- The courses with reference 'IC' are from programme with main subject ICT.
- The courses with reference 'ES' are from the programme with main subject Embedded Systems.

Nr	Course	CRDT	Ref	MT1	Session	Study
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1	E736030	Data Structures and Algorithms Jan Aelterman -- Department of Telecommunications and Information Processing	6	IC	A:1	180
2	E010310	Image Processing Wilfried Philips -- Department of Telecommunications and Information Processing	6	IC	A:1	180
3	E016712	Computer Graphics [en] Danilo Babin -- Department of Telecommunications and Information Processing	3	IC	B:2	90
4	E736020	Computer Vision Hiep Luong -- Department of Telecommunications and Information Processing	6	IC/ES	A:2	180
5	E736010	Cloud Applications and Mobile Sofie Van Hoecke -- Department of Electronics and Information Systems	6	IT/ES	A:2	180
6	E019370	Robotics [en] Tony Belpaeme -- Department of Electronics and Information Systems	6	IC/ES	A:1	180
7	E735090	Applied Machine Learning Sofie Van Hoecke -- Department of Electronics and Information Systems	6	ES/IT	A:1	180

3.3 Elective Social Courses

Subscribe to 3 credit units from the following list. Subject to approval by the faculty.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E735018 Emerging Technologies in ICT and Automation Jan Beyens -- Department of Information Technology	3			A:2	90
2	E076431 Introduction to Entrepreneurship [en] Petra Andries -- Department of Marketing, Innovation and Organisation	3			A:1	90
3	E670000 Summer Course [en, nl] Steven Verstockt -- Department of Electronics and Information Systems	3			A:1	90
4	E099600 Industry Internship Engineering Technology [en, nl] Patrick Segers -- Department of Electronics and Information Systems	3			B:J	90
5	E098010 Integrated Portfolio [en, nl]	3			B:J	90

Teaching languages

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: 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 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