Study Programme

Academic year 2025-2026

Faculty of Engineering and Architecture

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

Language of instruction: Dutch

Programme version 5

1 General Courses — 12 credits

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

2 Courses Related to the Main Subject — 36 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E735050	System on Chip Design	6		1	A:1	180
		Lieven Tytgat -- Department of Electronics and Information Systems					
2	E735040	Sensors and Interfacing	6		1	A:1	180
		Jeroen Missinne -- Department of Electronics and Information Systems					
3	E736050	Embedded Computer Vision	6		1	A:2	180
		Hiep Luong -- Department of Telecommunications and Information Processing					

2.1 Master's Dissertation

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

3 Elective Courses — 12 credits

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

3.1 Elective Courses Embedded Systems — 9 credits

Subscribe to 9 credit units from the following list. Subject to approval by the faculty.
De opleidingsonderdelen met referentie 'ICT' zijn afstudeerrichtingsvakken uit de afstudeerrichting ICT, de opleidingsonderdelen met referentie 'EL' zijn afstudeerrichtingsvakken uit de afstudeerrichting Elektronica.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E010310	Image Processing	6			A:1	180
		Bart Goossens -- Department of Telecommunications and Information Processing					
2	E019370	Robotics [en]	6			A:1	180
		Tony Belpaeme -- Department of Electronics and Information Systems					
3	E735027	Biomedical Electronics	3			A:1	90
		Paul Devos -- Department of Information Technology					
4	E735026	Analogue Design	6	EL		A:1	180
		Patrick Van Torre -- Department of Information Technology					
5	E735070	High-frequency Design and EMC	3	EL		A:1	90
		Emmeric Tanghe -- Department of Information Technology					
6	E736030	Data Structures and Algorithms	6	ICT		A:1	180
		Jan Aelterman -- Department of Telecommunications and Information Processing					
7	E735090	Applied Machine Learning	6	ICT		A:1	180
		Sofie Van Hoecke -- Department of Electronics and Information Systems					
8	E016712	Computer Graphics [en]	3			B:2	90
		Danilo Babin -- Department of Telecommunications and Information Processing					

Nr	Course		CRDT	Ref	MT1	Session	Study
9	E735060	Semiconductors and Electronic Devices	3			A:2	90
		Johan Lauwaert -- Department of Electronics and Information Systems					
10	E061670	Autonomous Vehicle Perception [en]	3			A:2	90
		Jan Aelterman -- Department of Telecommunications and Information Processing					
11	E735080	Antennas and Propagation	3	EL		A:2	90
		Günter Vermeeren -- Department of Information Technology					
12	E731050	Vermogenselektronica [en]	3	EL		A:2	90
		Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering					
13	E736040	Cloud Computing [en]	6	ICT		A:2	180
		Bruno Volckaert -- Department of Information Technology					
14	E736040	Cloud Computing [en]	3	ICT		B:2	90
		Bruno Volckaert -- Department of Information Technology					

3.2 Elective Social Courses   3 credits

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

Nr	Course		CRDT	Ref	MT1	Session	Study
1	F001020	Introduction to Entrepreneurship [en]	3			A:1	90
		Petra Andries -- Department of Marketing, Innovation and Organisation					
2	E670000	Summer Course [en, nl]	3			A:1	90
		Steven Verstockt -- Department of Electronics and Information Systems					
3	E099600	Industry Internship Engineering Technology [en, nl]	3			B:J	90
		Patrick Segers -- Department of Electronics and Information Systems					
4	E098010	Integrated Portfolio [en, nl]	3			B:J	90
		Hiep Luong -- Department of Telecommunications and Information Processing					

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	
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 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