Study Programme

Academic year 2023-2024

GHENT UNIVERSITY

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

Language of instruction: Dutch

Programme version 3

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	E736010	Cloud Applications and Mobile	6		1	A:2	180
		Sofie Van Hoecke -- Department of Electronics and Information Systems					
3	E736020	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	B:J	540

3 Elective Courses — 12 credits

Subscribe to 12 credit units from no less than 2 and no more than 3 elective course lists from the following list. Subject to approval by the faculty.

3.1 Elective Courses Embedded Systems

Subscribe to no less than 3 and no more than 9 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E735040	Sensors and Interfacing	6			A:1	180
		Jeroen Missinne -- Department of Electronics and Information Systems					
2	E019370	Robotics [en]	6			A:1	180
		Tony Belpaeme -- Department of Electronics and Information Systems					
3	E735090	Applied Machine Learning	6			A:1	180
		Sofie Van Hoecke -- Department of Electronics and Information Systems					
4	E735027	Biomedical Electronics	3			A:1	90
		Paul Devos -- Department of Information Technology					
5	E735032	High-frequency Techniques and EMC	3			A:2	90
		Günter Vermeeren -- Department of Information Technology					
6	E735031	Waves and Antennes	3			A:2	90
		Günter Vermeeren -- Department of Information Technology					

3.2 Elective Courses Electronics Engineering or ICT

Subscribe to no more than 6 credit units from the following list. Subject to approval by the faculty.
• The courses with reference 'EL' are from the programma with main subject Electronics Engineering
• The courses with referentie 'IT' are from the programma with main subject ICT

Nr	Course		CRDT	Ref	MT1	Session	Study

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E010310	Image Processing	6	IT		A:1	180
		Wilfried Philips -- Department of Telecommunications and Information Processing					
2	E019370	Robotics [en]	6	IT		A:1	180
		Tony Belpaeme -- Department of Electronics and Information Systems					
3	E735034	Transmission Lines	3	IT/EL		A:1	90
		Emmeric Tanghe -- Department of Information Technology					
4	E736020	Computer Vision	6	IT		A:2	180
		Hiep Luong -- Department of Telecommunications and Information Processing					
5	E016712	Computer Graphics [en]	3	IT		B:2	90
		Danilo Babin -- Department of Telecommunications and Information Processing					
6	E735031	Waves and Antennes	3	IT/EL		A:2	90
		Günter Vermeeren -- Department of Information Technology					
7	E735050	System on Chip Design	6	EL		A:1	180
		Lieven Tytgat -- Department of Electronics and Information Systems					
8	E735027	Biomedical Electronics	3	EL		A:1	90
		Paul Devos -- Department of Information Technology					
9	E735021	Characterisation of Semiconductor Components and Electronic Devices	3	EL		A:2	90
		Johan Lauwaert -- Department of Electronics and Information Systems					
10	E735033	Electronic Measurements and EMC	3	EL		A:2	90
		Guy Torfs -- Department of Information Technology					

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	3			A:2	90
		Jan Beyens -- Department of Information Technology					
2	E076431	Introduction to Entrepreneurship [en]	3			A:1	90
		Petra Andries -- Department of Marketing, Innovation and Organisation					
3	E670000	Summer Course [en, nl]	3			A:1	90
		Steven Verstockt -- Department of Electronics and Information Systems					
4	E099600	Industry Internship Engineering Technology [en, nl]	3			B:J	90
		Patrick Segers -- Department of Electronics and Information Systems					

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 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