

Faculty of Engineering and Architecture

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

Language of instruction: Dutch

Programme version 4

## 1 General Courses 12 credits

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

## 2 Courses Related to the Main Subject 36 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E735050 System on Chip Design <i>Lieven Tytgat -- Department of Electronics and Information Systems</i>	6		1	A:1	180
2	E736010 Cloud Applications and Mobile <i>Sofie Van Hoecke -- Department of Electronics and Information Systems</i>	6		1	A:2	180
3	E736020 Computer Vision <i>Hiep Luong -- Department of Telecommunications and Information Processing</i>	6		1	A:2	180

### 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 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 <i>Jeroen Missinne -- Department of Electronics and Information Systems</i>	6			A:1	180
2	E019370 Robotics [en] <i>Tony Belpaeme -- Department of Electronics and Information Systems</i>	6			A:1	180
3	E735090 Applied Machine Learning <i>Sofie Van Hoecke -- Department of Electronics and Information Systems</i>	6			A:1	180
4	E735027 Biomedical Electronics <i>Paul Devos -- Department of Information Technology</i>	3			A:1	90
5	E735032 High-frequency Techniques and EMC <i>Günter Vermeeren -- Department of Information Technology</i>	3			A:2	90
6	E735031 Waves and Antennas <i>Günter Vermeeren -- Department of Information Technology</i>	3			A:2	90

### 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
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1	E736030	Data Structures and Algorithms <i>Jan Aelterman -- Department of Telecommunications and Information Processing</i>	6	IT	A:1	180
2	E735026	Analogue Design <i>Patrick Van Torre -- Department of Information Technology</i>	6	EL	A:1	180
3	E010310	Image Processing <i>Wilfried Philips -- Department of Telecommunications and Information Processing</i>	6	IT	A:1	180
4	E016712	Computer Graphics [en] <i>Danilo Babin -- Department of Telecommunications and Information Processing</i>	3	IT	B:2	90
5	E735033	Electronic Measurements and EMC <i>Guy Torfs -- Department of Information Technology</i>	3	EL	A:2	90
6	E735021	Characterisation of Semiconductor Components and Electronic Devices	3	EL		90
7	E735034	Transmission Lines <i>Emmeric Tanghe -- Department of Information Technology</i>	3	IT/EL	A:1	90

### 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				90
2	E076431 Introduction to Entrepreneurship [en]	3			A:1	90
3	E670000 Summer Course [en, nl] <i>Steven Verstockt -- Department of Electronics and Information Systems</i>	3			A:1	90
4	E099600 Industry Internship Engineering Technology [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	3			B:J	90
5	E098010 Integrated Portfolio [en, nl] <i>Hiep Luong -- Department of Telecommunications and Information Processing</i>	3			B:J	90

#### 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 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