

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 <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	E735040 Sensors and Interfacing <i>Jeroen Missinne -- Department of Electronics and Information Systems</i>	6		1	A:1	180
3	E736050 Embedded 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 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 <i>Bart Goossens -- Department of Telecommunications and Information Processing</i>	6			A:1	180
2	E019370 Robotics [en] <i>Tony Belpaeme -- Department of Electronics and Information Systems</i>	6			A:1	180
3	E735027 Biomedical Electronics <i>Paul Devos -- Department of Information Technology</i>	3			A:1	90
4	E735026 Analogue Design <i>Patrick Van Torre -- Department of Information Technology</i>	6	EL		A:1	180
5	E735070 High-frequency Design and EMC <i>Emmeric Tanghe -- Department of Information Technology</i>	3	EL		A:1	90
6	E736030 Data Structures and Algorithms <i>Jan Aelterman -- Department of Telecommunications and Information Processing</i>	6	ICT		A:1	180
7	E735090 Applied Machine Learning <i>Sofie Van Hoecke -- Department of Electronics and Information Systems</i>	6	ICT		A:1	180
8	E016712 Computer Graphics [en] <i>Danilo Babin -- Department of Telecommunications and Information Processing</i>	3			B:2	90

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

### 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] <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i>	3			A:1	90
2	E670000 Summer Course [en, nl] <i>Steven Verstockt -- Department of Electronics and Information Systems</i>	3			A:1	90
3	E099600 Industry Internship Engineering Technology [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	3			B:J	90
4	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