

Faculty of Engineering and Architecture

Master of Science in Computer Science Engineering

Language of instruction: Dutch

Programme version 10

## 1 General Courses

60 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E034140 Parallel Computer Systems Lieven Eeckhout -- Department of Electronics and Information Systems	6		1	B:1	180
2	E017930 Parallel and Distributed Software Systems Filip De Turck -- Department of Information Technology	6		1	B:1	180
3	E017920 Design of Multimedia Applications Glenn Van Wallendael -- Department of Electronics and Information Systems	6		1	B:2	180
4	E031710 Research Project Joris Walraevens -- Department of Telecommunications and Information Processing	3		1	B:1	90
5	E033710 Design Project Femke De Backere -- Department of Information Technology	9		1	B:J	270
6	E012320 Mobile and Broadband Access Networks Mario Pickavet -- Department of Information Technology	6		1	A:2	180
7	E003600 Information Theory Heidi Steendam -- Department of Telecommunications and Information Processing	6		1	A:2	180
8	E011322 Queueing Analysis and Simulation Joris Walraevens -- Department of Telecommunications and Information Processing	6		1	B:1	180
9	E061330 Machine Learning Joni Dambre -- Department of Electronics and Information Systems	6		1	A:1	180
10	E019400 Information Security Eric Laermans -- Department of Information Technology	6		1	A:2	180

## 2 Elective Courses

Subscribe to 36 credit units from the following list. Subject to approval by the faculty.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E061360 Reinforcement Learning [en] Pieter Simoens -- Department of Information Technology	6			A:1	180
2	E061341 Natural Language Processing [en] Chris Develder -- Department of Information Technology	6			A:2	180
3	E018230 Recommender Systems [en] Toon De Pessemier -- Department of Information Technology	6			A:2	180
4	E061350 Deep Generative Models [en] Bart Dhoedt -- Department of Information Technology	4			A:2	120
5	E016340 Probabilistic Graphical Models [en] Aleksandra Pizurica -- Department of Telecommunications and Information Processing	4			A:2	120
6	E061460 Computer Vision: Theory and Applications Hiep Luong -- Department of Telecommunications and Information Processing	6			A:2	180
7	E018610 Database Design Guy De Tré -- Department of Telecommunications and Information Processing	4			A:1	120
8	E018240 Big Data Technology [en] Dieter De Witte -- Department of Electronics and Information Systems	4			A:1	120
9	E017310 Cloud Storage and Computing [en] Bruno Volckaert -- Department of Information Technology	4			A:2	120

10	E017942	Software Hacking and Protection [en] Bjorn De Sutter -- Department of Electronics and Information Systems	6			A:1	180
11	E017950	Secure Software and Systems [en] Bart Coppens -- Department of Electronics and Information Systems	6			A:2	180
12	E008710	Network Security [en] Bruno Volckaert -- Department of Information Technology	6			A:1	180
13	E019370	Robotics Tony Belpaeme -- Department of Electronics and Information Systems	6			B:1	180
14	E019170	Internet of Things [en] Jeroen Hoebeke -- Department of Information Technology	6			A:1	180
15	E099400	Research Internship [en] Patrick Segers -- Department of Electronics and Information Systems	3			B:J	90
16	E099400	Research Internship [en] Patrick Segers -- Department of Electronics and Information Systems	6			A:J	180
17	E099300	Industry Internship Engineering and Architecture [en, nl] Patrick Segers -- Department of Electronics and Information Systems	6			A:J	180
18	E016330	Artificial Intelligence [en, nl] Aleksandra Pizurica -- Department of Telecommunications and Information Processing	6			C:1	180

### 3 Master's Dissertation

24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091103 Master's Dissertation	24		2	A:J	720

#### 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 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