Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture

Master of Science in Information Engineering Technology

Language of instruction: Dutch

Programme version 12

1 General Courses — 27 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E765003	Network and Computer Security	6	1		A:1	170
		Eli De Poorter -- Department of Information Technology					
2	E761080	Machine Learning	6	1		A:1	180
		Pieter Simoens -- Department of Information Technology					
3	E765024	Advanced Algorithms	6	1		A:1	180
		Pieter Audenaert -- Department of Information Technology					
4	E765027	Systems Design [en]	3	1		A:1	90
		Merlijn Sebrechts -- Department of Information Technology					
5	E765025	System Administration [en]	6	1		A:2	170
		Bruno Volckaert -- Department of Information Technology					

2 Elective Courses — 15 credits

Subscribe to 15 credit units from no less than 1 and no more than 3 modules from the following list. Subject to approval by the faculty.

2.1 Elective Courses Informatics

Subscribe to no less than 3 and no more than 15 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E018700	Data Quality [en]	3			A:1	90
		Antoon Bronselaer -- Department of Telecommunications and Information Processing					
2	E018130	NoSQL Databases [en]	3			A:2	90
		Antoon Bronselaer -- Department of Telecommunications and Information Processing					
3	F000897	Enterprise Architecture	4				120
		Michal Hron -- Department of Business Informatics and Operations Management					
4	E018520	Compilers [en]	6			A:2	180
		Bjorn De Sutter -- Department of Electronics and Information Systems					
5	E012320	Mobile and Broadband Access Networks [en]	6			B:2	180
		Ingrid Moerman -- Department of Information Technology					
6	E736020	Computer Vision	6			A:2	180
		Hiep Luong -- Department of Telecommunications and Information Processing					
7	E019170	Internet of Things [en]	6			A:1	180
		Jeroen Hoebeke -- Department of Information Technology					
8	E016712	Computer Graphics [en]	6			A:2	180
		Danilo Babin -- Department of Telecommunications and Information Processing					
9	E016712	Computer Graphics [en]	3			B:2	90
		Danilo Babin -- Department of Telecommunications and Information Processing					
10	E731036	Digital Electronics	6			A:2	180
		Jan Aelterman -- Department of Telecommunications and Information Processing					
11	E017942	Software Hacking and Protection [en]	6			A:1	180
		Bjorn De Sutter -- Department of Electronics and Information Systems					
12	E017950	Secure Software and Systems [en]	6			A:2	180
		Bart Coppens -- Department of Electronics and Information Systems					

Nr	Course		CRDT	Ref	MT1	Session	Study
13	E008710	Network Security [en] *Bruno Volckaert -- Department of Information Technology*	6			A:1	180
14	E034150	Blockchain Technologies and Applications [en] *Bjorn De Sutter -- Department of Electronics and Information Systems*	3			A:1	90
15	E076320	The Information Society and ICT *Erik Mannens -- Department of Electronics and Information Systems*	3			A:2	90
16	E076820	Project Management [en] *Mario Vanhoucke -- Department of Business Informatics and Operations Management*	6			A:2	180
17	E061380	Embedded Machine Learning [en] *Adnan Shahid -- Department of Information Technology*	3			A:2	90
18	E075310	Ethics, Engineering and Society *Seppe Segers -- Department of Philosophy and Moral Sciences*	3			A:2	90
19	C000957	Intellectual Property Rights *Hendrik Vanhees -- Department of Interdisciplinary Study of Law, Private Law and Business Law*	3			A:2	90
20	E076450	Basic Entrepreneurship *Yannick Dillen -- Department of Marketing, Innovation and Organisation*	3	UKV		A:1	90

2.2 Elective Courses Internship   6 credits

Subscribe to no more than 6 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E099600	Industry Internship Engineering Technology [en, nl] *Patrick Segers -- Department of Electronics and Information Systems*	6			A:J	180
2	E099600	Industry Internship Engineering Technology [en, nl] *Patrick Segers -- Department of Electronics and Information Systems*	3			B:J	90
3	E760000	Summer of Code [en, nl] *Bruno Volckaert -- Department of Information Technology*	6			A:1	180
4	E760000	Summer of Code [en, nl] *Bruno Volckaert -- Department of Information Technology*	3			B:1	90

2.3 Elective Courses Ghent University   6 credits

Subscribe to no more than 6 credit units from the study programmes of Ghent University, including the Ghent University elective courses (excluding Programming (C003080) and Essentials of Artificial Intelligence: a Beginner's Guide (E099210)).
The electieves are preferably selected from the study programmes in the third bachelor' year or from the master's programmes. They should be in line with the learning competences and should be broadening or deepening. Subject to approval by the faculty.

3 Master's Dissertation   18 credits

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

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 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