Study Programme

Academic year 2026-2027

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Computer Science Engineering

Language of instruction: English

Programme version 6

1 General Courses — 78 credits

Het brugprogramma Master of Science in Computer Science Engineering kan worden gevolgd door studenten met de volgende vooropleiding:
• Master in de industriële wetenschappen: elektronica en ICT: multimedia en informatietechnologie
• Master in de industriële wetenschappen: elektronica en ICT: ICT
• Master in de industriële wetenschappen: elektronica-ICT, afstudeerrichting: ingebedde systemen
• Master in de industriële wetenschappen: informatica
Voor studenten met vooropleiding elektronica en ICT: multimedia en informatietechnologie kan het brugprogramma worden aangepast naargelang de inhoudelijke verwantschap met de vooropleiding (na goedkeuring door de faculteit).

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E001161	Mathematic Models	6	BRUG	1	A:1	180
		Karel Van Acoleyen -- Department of Electronics and Information Systems					
2	E001470	Discrete Mathematics II [nl]	6	BRUG	1	B:1	180
		Joris Walraevens -- Department of Telecommunications and Information Processing					
3	E016350	Artificial Intelligence	6	BRUG	1	A:2	180
		Aleksandra Pizurica -- Department of Telecommunications and Information Processing					
4	E017930	Parallel and Distributed Software Systems	6		1	A:1	180
		Jan Fostier -- Department of Information Technology					
5	E017920	Design of Multimedia Applications	6		1	A:2	180
		Glenn Van Wallendael -- Department of Electronics and Information Systems					
6	E031710	Research Project	3		1	A:1	90
		Joris Walraevens -- Department of Telecommunications and Information Processing					
7	E033710	Design Project	9		1	A:J	270
		Femke De Backere -- Department of Information Technology					
8	E012320	Mobile and Broadband Access Networks	6		1	B:2	180
		Ingrid Moerman -- Department of Information Technology					
9	E003600	Information Theory	6		1	B:2	180
		Heidi Steendam -- Department of Telecommunications and Information Processing					
10	E011322	Queueing Analysis and Simulation	6		1	A:1	180
		Joris Walraevens -- Department of Telecommunications and Information Processing					
11	E034140	Parallel Computer Systems	6		2	A:1	180
		Lieven Eeckhout -- Department of Electronics and Information Systems					
12	E061330	Machine Learning	6		2	B:1	180
		Joni Dambre -- Department of Electronics and Information Systems					
13	E019400	Information Security	6		2	B:2	180
		Eric Laermans -- Department of Information Technology					

2 Elective Courses — 18 credits

Subscribe to 18 credit units.
Divided as follows (choose between one of the two elective paths):
• Elective path 1:
  • at least 18 credits units from one major or minor from the Master of Science in Computer Science Engineering (module 2.1.1)
• Elective path 2:
  • at least 12 credit units from the list with elective courses Computer Science Engineering (module 2.2.1)
  • no more than 6 credit units from the programmes of Ghent University (modules 2.2.2)
Subject to approval by the faculty.

3 Master's Dissertation — 24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study

1   E091103   Master's Dissertation   24   2   B: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 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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030