GHENT UNIVERSITY

Study Programme

Academic year 2027-2028

Faculty of Engineering and Architecture

Bachelor of Science in Engineering -- Electrical Engineering

Language of instruction: Dutch

Programme version 5

1 General Courses — 60 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E001142	Basic Mathematics *Hennie De Schepper -- Department of Electronics and Information Systems*	3		1	A:1	90
2	E020061	Physics I *Christophe Leys -- Department of Applied Physics*	6		1	A:1	180
3	E001132	Mathematical Analysis I *Hennie De Schepper -- Department of Electronics and Information Systems*	6		1	A:1	180
4	E001460	Discrete Mathematics I *Mario Pickavet -- Department of Information Technology*	4		1	A:1	120
5	E070070	Chemistry: the Structure of Matter *Joris Thybaut -- Department of Materials, Textiles and Chemical Engineering*	4		1	A:1	120
6	E098513	Modelling, Making and Measuring *Filip Beunis -- Department of Electronics and Information Systems*	4		1	A:1	120
7	E015041	Informatics *Bart Dhoedt -- Department of Information Technology*	6		1	A:J	180
8	E001222	Mathematical Analysis II *Hendrik De Bie -- Department of Electronics and Information Systems*	4		1	A:2	120
9	E000662	Geometry and Linear Algebra *Hennie De Schepper -- Department of Electronics and Information Systems*	7		1	A:2	210
10	E070080	Chemical Thermodynamics *Maarten Sabbe -- Department of Materials, Textiles and Chemical Engineering*	3		1	A:2	90
11	E003043	Probability and Statistics *Jasper De Bock -- Department of Electronics and Information Systems*	6		1	A:2	180
12	E066012	Materials Technology *Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering*	4		1	A:2	120
13	E098512	Sustainability, Entrepreneurship and Ethics *Filip Beunis -- Department of Electronics and Information Systems*	3		1	A:2	90

2 General Courses — 39 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E090320	Electrical Circuits and Networks *Ivo Tanghe -- Department of Electronics and Information Systems*	6		2	A:1	180
2	E040420	Mechanics of Materials *Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering*	3		2	B:1	90
3	E020220	Physics II *Christophe Leys -- Department of Applied Physics*	6		2	A:1	180
4	E005020	Analysis of Systems and Signals *Gert De Cooman -- Department of Electronics and Information Systems*	6		2	A:1	180
5	E001321	Mathematical Analysis III *Hendrik De Bie -- Department of Electronics and Information Systems*	6		2	A:1	180
6	E007120	Modelling and Control of Dynamic Systems *Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering*	6		2	A:2	180

7	E076040	Sustainable Business Operations *Birger Raa -- Department of Industrial Systems Engineering and Product Design*	3	2	A:1	90
8	E016350	Artificial Intelligence [en] *Aleksandra Pizurica -- Department of Telecommunications and Information Processing*	3	3	B:2	90

3 Courses Related to the Main Subject — 81 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E003110	Applied Probability *Sabine Wittevrongel -- Department of Telecommunications and Information Processing*	3		2	A:2	90
2	E017615	Software Design and Development *Filip De Turck -- Department of Information Technology*	6		2	B:2	180
3	E099121	Engineering Project *Herbert De Smet -- Department of Electronics and Information Systems*	3		2	A:2	90
4	E065110	Materials in Electronics *Jeroen Beeckman -- Department of Electronics and Information Systems*	6		2	A:2	180
5	E034110	Computer Architecture *Koen De Bosschere -- Department of Electronics and Information Systems*	6		2	A:2	180
6	E012110	Communication Theory *Nele Noels -- Department of Telecommunications and Information Processing*	6		3	A:2	180
7	E900039	Applied Electromagnetism *Dries Vande Ginste -- Department of Information Technology*	6		3	A:1	180
8	E031110	Digital Electronics [en] *Dirk Stroobandt -- Department of Electronics and Information Systems*	6		3	B:1	180
9	E008620	Communication Networks *Wouter Tavernier -- Department of Information Technology*	6		3	A:1	180
10	E030210	Analog Electronics *Jeroen De Maeyer -- Department of Electromechanical, Systems and Metal Engineering*	6		3	A:1	180
11	E030610	Photonics *Günther Roelkens -- Department of Information Technology*	6		3	A:2	180
12	E010010	Signal Processing [en] *Kris Demuynck -- Department of Electronics and Information Systems*	6		3	A:1	180
13	E028411	Heat Transfer in Electronics *Filip Beunis -- Department of Electronics and Information Systems*	3		3	A:2	90
14	E099020	Cross-Course Project *Johan Bauwelinck -- Department of Information Technology*	6		3	A:2	180
15	E030230	Design of Analog Circuits and Building Blocks *Guy Torfs -- Department of Information Technology*	6		3	A:2	180

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 2028-2029	f: annually, from 2029-2030	i: annually, from 2030-2031
b: tri-annually	d: bi-annually, from 2028-2029	g: bi-annually, from 2029-2030	j: bi-annually, from 2030-2031
	e: tri-annually, from 2028-2029	h: tri-annually, from 2029-2030	k: tri-annually, from 2030-2031