



## Faculty of Engineering and Architecture

### Bachelor of Science in Engineering -- Electrical Engineering

Language of instruction: Dutch

Programme version 4

1 General Courses						60 credits	
Nr	Course		CRDT	Ref	MT1	Session	Study
1	E001142	Basic Mathematics <i>Hennie De Schepper -- Department of Electronics and Information Systems</i>	3		1	A:1	90
2	E020061	Physics I <i>Christophe Leys -- Department of Applied Physics</i>	6		1	A:1	180
3	E001132	Mathematical Analysis I <i>Hennie De Schepper -- Department of Electronics and Information Systems</i>	6		1	A:1	180
4	E001460	Discrete Mathematics I <i>Mario Pickavet -- Department of Information Technology</i>	4		1	A:1	120
5	E070070	Chemistry: the Structure of Matter <i>Marie-Françoise Reyniers -- Department of Materials, Textiles and Chemical Engineering</i>	4		1	A:1	120
6	E098513	Modelling, Making and Measuring <i>Filip Beunis -- Department of Electronics and Information Systems</i>	4		1	A:1	120
7	E015041	Informatics <i>Bart Dhoedt -- Department of Information Technology</i>	6		1	A:J	180
8	E001222	Mathematical Analysis II <i>Hendrik De Bie -- Department of Electronics and Information Systems</i>	4		1	A:2	120
9	E000662	Geometry and Linear Algebra <i>Hennie De Schepper -- Department of Electronics and Information Systems</i>	7		1	A:2	210
10	E070080	Chemical Thermodynamics <i>Marie-Françoise Reyniers -- Department of Materials, Textiles and Chemical Engineering</i>	3		1	A:2	90
11	E003043	Probability and Statistics <i>Jasper De Bock -- Department of Electronics and Information Systems</i>	6		1	A:2	180
12	E066012	Materials Technology <i>Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering</i>	4		1	A:2	120
13	E098512	Sustainability, Entrepreneurship and Ethics <i>Filip Beunis -- Department of Electronics and Information Systems</i>	3		1	A:2	90

2 General Courses						39 credits	
Nr	Course		CRDT	Ref	MT1	Session	Study
1	E090320	Electrical Circuits and Networks <i>Inge Nys -- Department of Electronics and Information Systems</i>	6		2	A:1	180
2	E040420	Mechanics of Materials <i>Wim Van Paepengem -- Department of Materials, Textiles and Chemical Engineering</i>	3		2	B:1	90
3	E020220	Physics II <i>Christophe Leys -- Department of Applied Physics</i>	6		2	A:1	180
4	E005020	Analysis of Systems and Signals <i>Gert De Cooman -- Department of Electronics and Information Systems</i>	6		2	A:1	180
5	E001321	Mathematical Analysis III <i>Hendrik De Bie -- Department of Electronics and Information Systems</i>	6		2	A:1	180
6	E007120	Modelling and Control of Dynamic Systems <i>Mia Loccufier -- Department of Electromechanical Systems and Metal Engineering</i>	6		2	A:2	180

7	E076040	Sustainable Business Operations <i>Ludo Poelaert -- Department of Industrial Systems Engineering and Product Design</i>	3	2	A:1	90
8	E016350	Artificial Intelligence [en] <i>Aleksandra Pizurica -- Department of Telecommunications and Information Processing</i>	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 <i>Sabine Wittevrongel -- Department of Telecommunications and Information Processing</i>	3	2	A:2	90	
2	E017210	Computer Programming <i>Filip De Turck -- Department of Information Technology</i>	6	2	A:2	180	
3	E099121	Engineering Project <i>Herbert De Smet -- Department of Electronics and Information Systems</i>	3	2	A:2	90	
4	E065110	Materials in Electronics <i>Jeroen Beeckman -- Department of Electronics and Information Systems</i>	6	2	A:2	180	
5	E034110	Computer Architecture <i>Koen De Bosschere -- Department of Electronics and Information Systems</i>	6	2	A:2	180	
6	E012110	Communication Theory <i>Nele Noels -- Department of Telecommunications and Information Processing</i>	6	3	A:1	180	
7	E900039	Applied Electromagnetism <i>Dries Vande Ginste -- Department of Information Technology</i>	6	3	A:1	180	
8	E031110	Digital Electronics <i>Dirk Stroobandt -- Department of Electronics and Information Systems</i>	6	3	A:1	180	
9	E008620	Communication Networks <i>Wouter Tavernier -- Department of Information Technology</i>	6	3	A:1	180	
10	E030210	Analog Electronics <i>Jeroen De Maeyer -- Department of Electromechanical, Systems and Metal Engineering</i>	6	3	A:1	180	
11	E030610	Photonics <i>Günther Roelkens -- Department of Information Technology</i>	6	3	A:2	180	
12	E010010	Signal Processing [en] <i>Nilesh Madhu -- Department of Electronics and Information Systems</i>	6	3	A:2	180	
13	E028411	Heat Transfer in Electronics <i>Filip Beunis -- Department of Electronics and Information Systems</i>	3	3	A:2	90	
14	E099020	Cross-Course Project <i>Johan Bauwelinck -- Department of Information Technology</i>	6	3	A:2	180	
15	E030230	Design of Analog Circuits and Building Blocks <i>Guy Torfs -- Department of Information Technology</i>	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 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 2024-2025	f: annually, from 2025-2026	i: annually, from 2026-2027
b: tri-annually	d: bi-annually, from 2024-2025	g: bi-annually, from 2025-2026	j: bi-annually, from 2026-2027
	e: tri-annually, from 2024-2025	h: tri-annually, from 2025-2026	k: tri-annually, from 2026-2027