

Faculty of Engineering and Architecture

Bachelor of Science in Engineering -- Biomedical Engineering

Language of instruction: Dutch

Programme version 4

## 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 Verbeke -- 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 48 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E090320 Electrical Circuits and Networks Inge Nys -- Department of Electronics and Information Systems	6		2	A:1	180
2	E020220 Physics II Christophe Leys -- Department of Applied Physics	6		2	A:1	180
3	E001321 Mathematical Analysis III Hendrik De Bie -- Department of Electronics and Information Systems	6		2	A:1	180
4	E040420 Mechanics of Materials Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering	6		2	A:1	180
5	E045120 Transport Phenomena Tom De Mulder -- Department of Civil Engineering	6		2	B:2	180
6	E076040 Sustainable Business Operations Birger Raa -- Department of Industrial Systems Engineering and Product Design	3		3	A:1	90

7	E005020	Analysis of Systems and Signals Gert De Cooman -- Department of Electronics and Information Systems	6	3	A:1	180
8	E007120	Modelling and Control of Dynamic Systems Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering	6	3	A:2	180
9	E016350	Artificial Intelligence [en] Aleksandra Pizurica -- Department of Telecommunications and Information Processing	3	3	B:2	90

### 3 Courses Related to the Main Subject 72 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E092662 From Genome to Organism [en] Fransiska Malfait -- Department of Biomolecular Medicine	3		2	A:1	90
2	E032511 Electronic Systems and Instrumentation for Biomedical Engineers Jan Doutreloigne -- Department of Electronics and Information Systems	5		2	A:2	150
3	E092623 Modelling of Physiological Systems [en] Patrick Segers -- Department of Electronics and Information Systems	5		2	A:2	150
4	E099172 Engineering Project Patrick Segers -- Department of Electronics and Information Systems	5		2	A:J	150
5	E002910 Introduction to Numerical Mathematics Karel Van Acoleyen -- Department of Electronics and Information Systems	3		2	A:2	90
6	E070310 Organic Chemistry Filip Du Prez -- Department of Organic Chemistry	6		2	A:2	180
7	E003230 Statistical Data Processing Nele De Belie -- Department of Structural Engineering and Building Materials	3		2	A:2	90
8	E022110 Electromagnetism I Dries Vande Ginste -- Department of Information Technology	6		3	A:1	180
9	E074011 Quantitative Cell and Tissue Analysis [en] Andre Skirtach -- Department of Biotechnology	6		3	A:1	180
10	E063682 Biomechanics [en] Charlotte Debbaut -- Department of Electronics and Information Systems	6		3	A:1	180
11	E068661 Biomedical Polymers and Processing Sandra Van Vlierberghe -- Department of Organic Chemistry	3		3	A:1	90
12	E092735 Medical Physics [en] Klaus Bacher -- Department of Human Structure and Repair	6		3	A:2	180
13	E010390 Medical Signal Processing and Statistics [en] Nilesh Madhu -- Department of Electronics and Information Systems	3		3	A:2	90
14	E021560 Molecular Structure Veronique Van Speybroeck -- Department of Applied Physics	3		3	A:2	90
15	E021521 Statistical Physics Louis Vanduyfhuys -- Department of Applied Physics	3		3	A:2	90
16	E099070 Cross-Course Project [nl, en] Stefaan Vandenberghe -- Department of Electronics and Information Systems	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 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