

Study Programme

Academic year 2023-2024

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 Re	ef 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 Marie-Françoise Reyniers 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 Marie-Françoise Reyniers 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			48	credits
Nr	Course		CRDT Re	ef 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	6	2	A:1	180

		Inge Nys Department of Electronics and Information Systems				
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 Ludo Poelaert 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	s Related to the Main Subject			72	credits
Nr	Course		CRDT I	Ref MT1	Session	Studv
1		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] An Hendrix Department of Human Structure and Repair	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:2	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 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 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