Study Programme

Academic year 2021-2022

Faculty of Engineering and Architecture

Bachelor of Science in Engineering -- Biomedical Engineering

Language of instruction: Dutch

Programme version 3

1 General Courses — 60 credits

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

2 General Courses — 45 credits

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

Nr	Course		CRDT	Ref	MT1	Session	Study
7	E005020	Analysis of Systems and Signals	6	3		A:1	180
		Gert De Cooman -- Department of Electronics and Information Systems					
8	E007120	Modelling and Control of Dynamic Systems	6	3		A:2	180
		Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering					

3 Courses Related to the Main Subject — 75 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E092662	From Genome to Organism [en]	3	2		A:1	90
		Fransiska Malfait -- Department of Biomolecular Medicine					
2	E021520	Statistical Physics and Molecular Structure	6	2		A:2	180
		Veronique Van Speybroeck -- Department of Applied Physics					
3	E092621	Modelling of Physiological Systems [en]	6	2		A:2	180
		Patrick Segers -- Department of Electronics and Information Systems					
4	E099171	Engineering Project	6	2		A:J	180
		Patrick Segers -- Department of Electronics and Information Systems					
5	E002910	Introduction to Numerical Mathematics	3	2		A:2	90
		Marian Slodicka -- Department of Electronics and Information Systems					
6	E070310	Organic Chemistry	6	2		A:2	180
		Filip Du Prez -- Department of Organic Chemistry					
7	E003230	Statistical Data Processing	3	2		A:2	90
		Nele De Belie -- Department of Structural Engineering and Building Materials					
8	E022110	Electromagnetism I	6	3		A:1	180
		Dries Vande Ginste -- Department of Information Technology					
9	E074011	Quantitative Cell and Tissue Analysis [en]	6	3		A:1	180
		An Hendrix -- Department of Human Structure and Repair					
10	E063682	Biomechanics [en]	6	3		A:1	180
		Charlotte Debbaut -- Department of Electronics and Information Systems					
11	E032510	Electronic Systems and Instrumentation for Biomedical Engineers	6	3		A:2	180
		Jan Doutreloigne -- Department of Electronics and Information Systems					
12	E068661	Biomedical Polymers and Processing	3	3		A:2	90
		Sandra Van Vlierberghe -- Department of Organic Chemistry					
13	E092735	Medical Physics [en]	6	3		A:2	180
		Klaus Bacher -- Department of Human Structure and Repair					
14	E010390	Medical Signal Processing and Statistics [en]	3	3		A:2	90
		Sarah Verhulst -- Department of Information Technology					
15	E099070	Cross-Course Project [nl, en]	6	3		A:2	180
		Sarah Verhulst -- Department of Information Technology					

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 2022-2023	f: annually, from 2023-2024	i: annually, from 2024-2025
b: tri-annually	d: bi-annually, from 2022-2023	g: bi-annually, from 2023-2024	j: bi-annually, from 2024-2025
	e: tri-annually, from 2022-2023	h: tri-annually, from 2023-2024	k: tri-annually, from 2024-2025