Study Programme

Academic year 2023-2024

Faculty of Engineering and Architecture

Bachelor of Science in Engineering -- Engineering Physics

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
		Jasper De Bock -- 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 — 39 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E090320	Electrical Circuits and Networks	6		2	A:1	180
		Inge Nys -- 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	E005020	Analysis of Systems and Signals	6		3	A:1	180
		Gert De Cooman -- Department of Electronics and Information Systems					
6	E007120	Modelling and Control of Dynamic Systems	6		3	A:2	180
		Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering					

Nr	Course		CRDT	Ref	MT1	Session	Study
7	E076040	Sustainable Business Operations	3		3	A:1	90
		Ludo Poelaert -- Department of Industrial Systems Engineering and Product Design					

3 Courses Related to the Main Subject — 81 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E040050	Theoretical Mechanics I	6		2	A:1	180
		Dimitri Van Neck -- Department of Physics and Astronomy					
2	E001810	Mathematical Tools in Engineering: Linear Algebra	3		2	A:2	90
		Srdan Lazendic -- Department of Electronics and Information Systems					
3	E020310	Physics III	6		2	A:2	180
		Louis Vanduyfhuys -- Department of Applied Physics					
4	E021110	Materials and Fields	6		2	A:2	180
		Jeroen Beeckman -- Department of Electronics and Information Systems					
5	E023010	Quantum Mechanics I	6		2	A:2	180
		Louis Vanduyfhuys -- Department of Applied Physics					
6	E099131	Engineering Project	6		2	A:2	180
		Matthieu Boone -- Department of Physics and Astronomy					
7	E040060	Theoretical Mechanics II	3		2	A:2	90
		Dimitri Van Neck -- Department of Physics and Astronomy					
8	E024610	Solid-state Physics and Semiconductors I	6		3	A:1	180
		Henk Vrielinck -- Department of Solid State Sciences					
9	E001820	Mathematical Tools in Engineering: Complex Analysis	3		3	A:1	90
		Hennie De Schepper -- Department of Electronics and Information Systems					
10	E023060	Quantum Mechanics II	6		3	A:1	180
		Veronique Van Speybroeck -- Department of Applied Physics					
11	E022110	Electromagnetism I	6		3	A:1	180
		Dries Vande Ginste -- Department of Information Technology					
12	E032010	Electronic Systems and Instrumentation	6		3	A:2	180
		Jan Doutreloigne -- Department of Electronics and Information Systems					
13	E024620	Solid-state Physics and Semiconductors II	3		3	A:2	90
		Christophe Detavernier -- Department of Solid State Sciences					
14	E030610	Photonics	6		3	A:2	180
		Günther Roelkens -- Department of Information Technology					
15	E022210	Electromagnetism II	3		3	A:2	90
		Hendrik Rogier -- Department of Information Technology					
16	E099030	Cross-Course Project	6		3	A:2	180
		Dick Botteldooren -- 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 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