

Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture
Bachelor of Science in Engineering -- Engineering Physics

Language of instruction: Dutch

Programme version 4

(General	neral Courses				60 credits	
	Course E001142	Basic Mathematics	CRDT F	Ref MT1	Session A:1	Study 90	
		Hennie De Schepper Department of Electronics and Information Systems	-	·			
-	E020061	Physics I Christophe Leys Department of Applied Physics	6	1	A:1	180	
	E001132	Mathematical Analysis I Hennie De Schepper Department of Electronics and Information Systems	6	1	A:1	180	
	E001460	Discrete Mathematics I Mario Pickavet Department of Information Technology	4	1	A:1	120	
	E070070	Chemistry: the Structure of Matter Joris Thybaut Department of Materials, Textiles and Chemical Engineering	4	1	A:1	120	
	E098513	Modelling, Making and Measuring Filip Beunis Department of Electronics and Information Systems	4	1	A:1	120	
	E015041	Informatics Bart Dhoedt Department of Information Technology	6	1	A:J	180	
	E001222	Mathematical Analysis II Hendrik De Bie Department of Electronics and Information Systems	4	1	A:2	120	
	E000662	Geometry and Linear Algebra Hennie De Schepper Department of Electronics and Information Systems	7	1	A:2	210	
0	E070080	Chemical Thermodynamics Maarten Sabbe Department of Materials, Textiles and Chemical Engineering	3	1	A:2	90	
1	E003043	Probability and Statistics Jasper De Bock Department of Electronics and Information Systems	6	1	A:2	180	
2	E066012	Materials Technology Kim Verbeken Department of Materials, Textiles and Chemical Engineering	4	1	A:2	120	
3	E098512	Sustainability, Entrepreneurship and Ethics Filip Beunis Department of Electronics and Information Systems	3	1	A:2	90	
	General	Courses			39 (credits	
	Course			Ref MT1	Session	Study	
	E090320	Electrical Circuits and Networks Inge Nys Department of Electronics and Information Systems	6	2	A:1	180	
	E020220	Physics II Christophe Leys Department of Applied Physics	6	2	A:1	180	
	E001321	Mathematical Analysis III Hendrik De Bie Department of Electronics and Information Systems	6	2	A:1	180	
	E005020	Analysis of Systems and Signals Gert De Cooman Department of Electronics and Information Systems	6	2	A:1	180	
	E045120	Transport Phenomena Tom De Mulder Department of Civil Engineering	6	2	B:2	180	
	E076040	Sustainable Business Operations Birger Raa Department of Industrial Systems Engineering and Product Design	3 n	3	A:1	90	

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3 Courses Related to the Main Subject

81 credits

Nr Course		CRDT R	Ref MT1	Session	Study
1 E040050	Theoretical Mechanics I Dimitri Van Neck Department of Physics and Astronomy	6	2	A:1	180
2 E001810	Mathematical Tools in Engineering: Linear Algebra Srdan Lazendic Department of Electronics and Information Systems	3	2	A:2	90
3 E020310	Physics III Louis Vanduyfhuys Department of Applied Physics	6	2	A:2	180
4 E023010	Quantum Mechanics I Louis Vanduyfhuys Department of Applied Physics	6	2	A:2	180
5 E099131	Engineering Project Nathalie De Geyter Department of Applied Physics	6	2	A:2	180
6 E040060	Theoretical Mechanics II Dimitri Van Neck Department of Physics and Astronomy	3	2	A:2	90
7 E021110	Materials and Fields Jeroen Beeckman Department of Electronics and Information Systems	6	3	A:2	180
8 E024610	Solid-state Physics and Semiconductors I Henk Vrielinck Department of Solid State Sciences	6	3	A:1	180
9 E001820	Mathematical Tools in Engineering: Complex Analysis Hennie De Schepper Department of Electronics and Information Systems	3	3	A:1	90
10 E023060	Quantum Mechanics II Veronique Van Speybroeck Department of Applied Physics	6	3	A:1	180
11 E022110	Electromagnetism I Dries Vande Ginste Department of Information Technology	6	3	A:1	180
12 E032010	Electronic Systems and Instrumentation Jan Doutreloigne Department of Electronics and Information Systems	6	3	A:2	180
13 E024620	Solid-state Physics and Semiconductors II Christophe Detavernier Department of Solid State Sciences	3	3	A:2	90
14 E030610	Photonics Günther Roelkens Department of Information Technology	6	3	A:2	180
15 E022210	Electromagnetism II Hendrik Rogier Department of Information Technology	3	3	A:2	90
16 E099030	Cross-Course Project Christophe Leys Department of Applied Physics	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 2025-2026 f: annually, from 2026-2027 i: annually, from 2027-2028 g: bi-annually, from 2026-2027 g: bi-annually, from 2026-2027 g: bi-annually, from 2027-2028 e: tri-annually, from 2025-2026 h: tri-annually, from 2026-2027 k: tri-annually, from 2027-2028

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