

Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture

Bachelor of Science in Engineering -- Electromechanical Engineering

Language of instruction: Dutch

Programme version 3

1	General	Courses		60 credits			
Nr	Course		CRDT R	lef 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 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	l Courses			45 (credits	
Nr	Course		CRDT R	lef MT1	Session	Study	
1	E090320	Electrical Circuits and Networks Inge Nys Department of Electronics and Information Systems	6	2	A:1	180	
2	E040420	Mechanics of Materials Wim Van Paepegem Department of Materials, Textiles and Chemical Engineering	6	2	A:1	180	
3	E020220	Physics II Christophe Leys Department of Applied Physics	6	2	A:1	180	
4	E045120	Transport Phenomena Tom De Mulder Department of Civil Engineering	6	2	B:2	180	
5	E001321	Mathematical Analysis III	6	2	A:1	180	

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A:1

180

Hendrik De Bie -- Department of Electronics and Information Systems

Gert De Cooman -- Department of Electronics and Information Systems

E005020 Analysis of Systems and Signals

7	E076040	Sustainable Business Operations	3	3	A:1	90
		Birger Raa Department of Industrial Systems Engineering and Product Design				
8	E007120	Modelling and Control of Dynamic Systems	6	3	A:2	180
		Mia Laccufing Department of Electromochanical Systems and Motal Engineering				

3	Courses Related to the Main Subject				75 d	75 credits	
Nr	Course		CRDT I	Ref MT1	Session	Study	
1	E032010	Electronic Systems and Instrumentation Jan Doutreloigne Department of Electronics and Information Systems	6	2	A:2	180	
2	E040030	Dynamics of Rigid Bodies Wim De Waele Department of Electromechanical, Systems and Metal Engineering	3	2	A:2	90	
3	E062220	Machine Elements Patrick De Baets Department of Electromechanical, Systems and Metal Engineering	6	2	A:2	180	
4	E002910	Introduction to Numerical Mathematics Karel Van Acoleyen Department of Electronics and Information Systems	3	2	A:2	90	
5	E099151	Engineering Project Dieter Fauconnier Department of Electromechanical, Systems and Metal Engineering	6	2	A:2	180	
6	E036210	Electromagnetic Energy Conversion	6	2		180	
7	E041011	Kinematics and Dynamics of Mechanisms Magd Abdel Wahab Department of Electromechanical, Systems and Metal Engineering	6	3	A:1	180	
8	E008310	Electrical Power Systems Lieven Vandevelde Department of Electromechanical, Systems and Metal Engineering	3	3	A:1	90	
9	E037010	Heat and Combustion Engineering Steven Lecompte Department of Electromechanical, Systems and Metal Engineering	6	3	A:1	180	
10	E044011	Mechanics of Structures Patricia Verleysen Department of Electromechanical, Systems and Metal Engineering	6	3	A:1	180	
11	E039110	Technical Thermodynamics Michel De Paepe Department of Electromechanical, Systems and Metal Engineering	6	3	A:1	180	
12	E036111	Electrical Drives Luc Dupré Department of Electromechanical, Systems and Metal Engineering	6	3	A:2	180	
13	E063130	Mechanical Production Technology	3	3		90	
14	E003230	Statistical Data Processing Nele De Belie Department of Structural Engineering and Building Materials	3	3	A:2	90	
15	E099050	Cross-Course Project Michel De Paepe Department of Electromechanical, Systems and Metal Engineering	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 b: tri-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

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