

Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture

Bachelor of Science in Engineering Technology -- Electromechanical Engineering Technology

Language of instruction: Dutch

Programme version 3

1	General	Courses			60 (credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	E701033	Mathematics I Tanja Van Hecke Department of Information Technology	6	1	A:1	180
2	E701023	General Chemistry Maarten Sabbe Department of Materials, Textiles and Chemical Engineering	6	1	A:1	180
3	E701024	Electricity Luc Dupré Department of Electromechanical, Systems and Metal Engineering	6	1	A:1	180
4	E701051	Design Tools Kathleen Gekiere Department of Structural Engineering and Building Materials	4	1	A:1	120
5	E701029	Materials Geert De Clercq Department of Materials, Textiles and Chemical Engineering	3	1	A:1	90
6	E701030	Mechanics Tom Claessens Department of Materials, Textiles and Chemical Engineering	6	1	A:J	180
7	E701052	Engineering Project Kathleen Gekiere Department of Structural Engineering and Building Materials	5	1	A:J	150
8	E701034	Mathematics II Tanja Van Hecke Department of Information Technology	6	1	A:2	180
9	E701056	Physics Sven Van Loo Department of Applied Physics	6	1	A:2	180
10	E701053	Computer Science Helga Naessens Department of Information Technology	6	1	A:2	180
11	E701054	Sustainable Energy Technologies Johan Lauwaert Department of Electronics and Information Systems	3	1	A:2	90
12	E701055	Electronics Jo Verhaevert Department of Information Technology	3	1	A:2	90
2	General	Courses			15 (credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	E702010	Signals and Systems Jan Beyens Department of Information Technology	6	2	A:1	180
2	E702090	Statistics and Mathematical Data-analysis Tanja Van Hecke Department of Information Technology	6	2	A:2	180
3	E702702	Business Administration Birger Raa Department of Industrial Systems Engineering and Product Design	3	3	A:2	90
3	Courses	Related to the Main Subject			105 (credits
3.1 Courses Related to the Main Subject Electromechanical Engineering 80 credits						
Nr	Course		CRDT	Ref MT1	Session	Study

6

2

A:1

1 E702080 Thermodynamics and Fluid Mechanics

Tom Claessens -- Department of Materials, Textiles and Chemical Engineering

180

2	E702030	Mechanics of Materials Marc Wouters Department of Materials, Textiles and Chemical Engineering	3	2	A:1	90
3	E702040	Electronics II Stefaan Lambrecht Department of Information Technology	6	2	A:1	180
4	E741044	Electrical Energy Peter Sergeant Department of Electromechanical, Systems and Metal Engineering	5	2	A:1	150
5	E741047	Electrical Measuring Techniques Mathias Kersemans Department of Materials, Textiles and Chemical Engineering	4	2	A:1	120
6	E702060	Signals and Systems II Jan Beyens Department of Information Technology	3	2	A:2	90
7	E741048	Machine Components Patrick De Baets Department of Electromechanical, Systems and Metal Engineering	3	2	A:2	90
8	E741049	Industrial project Guy Foubert Department of Materials, Textiles and Chemical Engineering	3	2	A:2	90
9	E741050	Fluid machines Joris Degroote Department of Electromechanical, Systems and Metal Engineering	3	2	A:2	90
10	E741026	Electrical Design of Industrial Installations Peter Sergeant Department of Electromechanical, Systems and Metal Engineering	6	2	A:2	180
11	E741027	CAD and Manufacturing Techniques Jan De Strooper Department of Electromechanical, Systems and Metal Engineering	6	2	A:2	180
12	E741034	Pneumatic and Hydraulic Drives Jan De Strooper Department of Electromechanical, Systems and Metal Engineering	6	3	A:1	180
13	E741051	PLC I Tim Saillé Department of Electromechanical, Systems and Metal Engineering	5	3	A:1	140
14	E741052	Electromechanical drive systems Hendrik Vansompel Department of Electromechanical, Systems and Metal Engineering	3	3	A:1	90
15	E741023	Control Theory Jan Beyens Department of Information Technology	6	3	A:2	180
16	E741046	Electric Drives Peter Sergeant Department of Electromechanical, Systems and Metal Engineering	6	3	A:2	180
17	E741053	Bachelor Thesis Tom Claessens Department of Materials, Textiles and Chemical Engineering	6	3	A:2	180
3.2	2 Major N	Mechanics or Major Electrotechnology and Automation	ı		25	credits
Sul	oscribe to 25	credit units from 1 major from the following list. Subject to approval by the	e faculty.			
3.2	2.1 Major	Mechanics			25	credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	E741031	Applied Materials Science Inge Bellemans Department of Materials, Textiles and Chemical Engineering	3	3	A:1	90
2	E741054	Advanced Machine Components Patrick De Baets Department of Electromechanical, Systems and Metal Engineering	5	3	A:1	150
3	E741035	CAD Applications Magd Abdel Wahab Department of Electromechanical, Systems and Metal Engineering	3	3	B:1	90
4	E741055	Mechanics of Materials and FEM Marc Wouters Department of Materials, Textiles and Chemical Engineering	5	3	A:1	150
5	E741056	Manufacturing Technology Kris Hectors Department of Electromechanical, Systems and Metal Engineering	5	3	A:2	150
6	E741057	Thermal Energy: Installation Components Wim Beyne Department of Electromechanical, Systems and Metal Engineering	4	3	A:2	120
3.2	2.2 Major	Electrotechnology and Automation			25	credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	E741058	Programming in C Wim Van Den Breen Department of Information Technology	3	3	A:1	90
2	E741039	CAD Electrotechnogy Tim Saillé Department of Electromechanical, Systems and Metal Engineering	3	3	A:1	90
3	E741059	Integration of Renewable Energy	3	3	A:1	90

Jan Desmet -- Department of Electromechanical, Systems and Metal Engineering

4	E741060	Object oriented programming in C# Veerle Ongenae Department of Information Technology	4	3	A:1	120
5	E745006	Industrial Communication Jo Verhaevert Department of Information Technology	3	3	A:1	85
6	E731018	Embedded Systems: Microcontrollers Patrick Van Torre Department of Information Technology	6	3	A:2	180
7	E741041	PLC II Tim Saillé Department of Electromechanical, Systems and Metal Engineering	3	3	A:2	90

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	
b: tri-annually	

c: annually, from 2025-2026 d: bi-annually, from 2025-2026 e: tri-annually, from 2025-2026 f: annually, from 2026-2027 g: bi-annually, from 2026-2027 h: tri-annually, from 2026-2027 i: annually, from 2027-2028 j: bi-annually, from 2027-2028 k: tri-annually, from 2027-2028