GHENT UNIVERSITY

Study Programme

Academic year 2023-2024

Faculty of Engineering and Architecture

Linking Course Master of Science in Electromechanical Engineering Technology

Language of instruction: Dutch

Programme version 8

1 General Courses

The student takes one of the following tracks, depending on the result of the qualification test. The reduced track can only be followed on the condition that the student passes the qualification test.
More information on the qualification test: ugent.be/ea
Students holding one of the following degrees cannot participate in the qualification test, and take the track of 75 credit units:
- Bachelor in de luchtvaart, afstudeerrichting aspirant-lijnpiloot of certificaat lijnpiloot
- Bachelor in de agro- en biotechnologie, afstudeerrichting landbouwmechanisatie

1.1 General Courses — 75 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	E702080	Thermodynamics and Fluid Mechanics *Tom Claessens -- Department of Materials, Textiles and Chemical Engineering*	6		1	A:1	180
3	E741035	CAD Applications *Magd Abdel Wahab -- Department of Electromechanical, Systems and Metal Engineering*	3		1	B:1	90
4	E741031	Applied Materials Science *Inge Bellemans -- Department of Materials, Textiles and Chemical Engineering*	3		1	A:1	90
5	E741044	Electrical Energy *Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering*	5		1	A:1	150
6	E702030	Mechanics of Materials *Marc Wouters -- Department of Materials, Textiles and Chemical Engineering*	3		1	A:1	90
7	E701034	Mathematics II *Tanja Van Hecke -- Department of Information Technology*	6		1	A:2	180
8	E702090	Statistics and Mathematical Data-analysis *Tanja Van Hecke -- Department of Information Technology*	6		1	A:2	180
9	E741046	Electric Drives *Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:2	180
10	E741056	Manufacturing Technology *Kris Hectors -- Department of Electromechanical, Systems and Metal Engineering*	5		1	A:2	150
11	E741057	Thermal Energy: Installation Components *Wim Beyne -- Department of Electromechanical, Systems and Metal Engineering*	4		1	A:2	120
12	E702010	Signals and Systems *Jan Beyens -- Department of Information Technology*	6		2	A:1	180
13	E741055	Mechanics of Materials and FEM *Marc Wouters -- Department of Materials, Textiles and Chemical Engineering*	5		2	A:1	150
14	E741054	Advanced Machine Components *Patrick De Baets -- Department of Electromechanical, Systems and Metal Engineering*	5		2	A:1	150
15	E741023	Control Theory *Jan Beyens -- Department of Information Technology*	6		2	A:2	180

1.2 General Courses: reduced track — 63 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	E702080	Thermodynamics and Fluid Mechanics *Tom Claessens -- Department of Materials, Textiles and Chemical Engineering*	6	1	A:1	180
3	E702010	Signals and Systems *Jan Beyens -- Department of Information Technology*	6	1	A:1	180
4	E741055	Mechanics of Materials and FEM *Marc Wouters -- Department of Materials, Textiles and Chemical Engineering*	5	1	A:1	150
5	E741035	CAD Applications *Magd Abdel Wahab -- Department of Electromechanical, Systems and Metal Engineering*	3	1	B:1	90
6	E741054	Advanced Machine Components *Patrick De Baets -- Department of Electromechanical, Systems and Metal Engineering*	5	1	A:1	150
7	E741031	Applied Materials Science *Inge Bellemans -- Department of Materials, Textiles and Chemical Engineering*	3	1	A:1	90
8	E701034	Mathematics II *Tanja Van Hecke -- Department of Information Technology*	6	1	A:2	180
9	E702090	Statistics and Mathematical Data-analysis *Tanja Van Hecke -- Department of Information Technology*	6	1	A:2	180
10	E741046	Electric Drives *Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering*	6	1	A:2	180
11	E741023	Control Theory *Jan Beyens -- Department of Information Technology*	6	1	A:2	180
12	E741056	Manufacturing Technology *Kris Hectors -- Department of Electromechanical, Systems and Metal Engineering*	5	1	A:2	150

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