GHENT UNIVERSITY

Study Programme

Academic year 2025-2026

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Mechanical and Electrical Systems Engineering

Language of instruction: English

Programme version 1

1 General Courses — 90 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E001161	Mathematic Models *Karel Van Acoleyen -- Department of Electronics and Information Systems*	6	BRUG	1	A:1	180
2	E005020	Analysis of Systems and Signals [nl] *Gert De Cooman -- Department of Electronics and Information Systems*	3	BRUG	1	B:1	90
3	E036500	Electrical Machines [nl] *Luc Dupré -- Department of Electromechanical, Systems and Metal Engineering*	3	BRUG	1	B:1	90
4	E048300	Kinematics and Dynamics of Mechanisms *Magd Abdel Wahab -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:1	180
5	E048400	Numerical Modelling and Design of Electrical and Mechanical Systems *Jolan Wauters -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:1	180
6	E037020	Heat and Flow Engineering [nl] *Wim Beyne -- Department of Electromechanical, Systems and Metal Engineering*	6	BRUG	1	A:2	180
7	E030530	Power Electronic Supplies [nl] *Frederik De Belie -- Department of Electromechanical, Systems and Metal Engineering*	3	BRUG	1	A:2	90
8	E048600	Vibrations and Signals *Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:2	180
9	E048800	Construction Techniques and Engineering Maintenance *Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:2	180
10	E048900	Multidisciplinary Design *Steven Lecompte -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:2	180
11	E007130	Modelling and Simulation of Dynamical Systems [nl] *Guillaume Crevecoeur -- Department of Electromechanical, Systems and Metal Engineering*	3	BRUG	2	B:2	90
12	E048100	Fluid Machines *Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering*	6		2	A:1	180
13	E005220	Linear Systems *Gert De Cooman -- Department of Electronics and Information Systems*	6		2	A:1	180
14	E048200	Electrical Drives *Frederik De Belie -- Department of Electromechanical, Systems and Metal Engineering*	6		2	A:1	180
15	E029800	Domain-Specific Research Skills *Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering*	3		2	(A:1)[c]	90
16	E029700	General Research Skills *Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering*	3		2	(A:1)[c]	90
17	E048500	Thermal Machines *Sebastian Verhelst -- Department of Electromechanical, Systems and Metal Engineering*	6		2	A:2	180
18	E048700	Electrical Power and Energy Systems *Lieven Vandevelde -- Department of Electromechanical, Systems and Metal Engineering*	6		2	A:2	180

2 Elective Courses — 6 credits

Subscribe to 6 credit units from the elective course lists in the Master of Science in Mechanical and Electrical Systems Engineering.
Subject to approval by the faculty.
Students can choose from the elective modules with 'Academic Specializing Elective Courses', 'Non-Technical Elective Social Courses',

'Internship / Integrated Portfolio' and 'Elective courses Ghent University'.

3 Master's Dissertation 24 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E091103	Master's Dissertation [nl]	24		2	A:J	720

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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	g: bi-annually, from 2027-2028	j: bi-annually, from 2028-2029
	e: tri-annually, from 2026-2027	h: tri-annually, from 2027-2028	k: tri-annually, from 2028-2029