

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

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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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 is 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