

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>Guillaume Crevecoeur -- 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	90
16	E029700 General Research Skills <i>Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i>	3		2	A:1	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.

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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030