Study Programme

Academic year 2021-2022

Faculty of Engineering and Architecture
Master of Science in Electromechanical Engineering -- Mechanical Energy Engineering

Language of instruction: Dutch

Programme version 12

1 General Courses — 90 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E036130	Controlled Electrical Drives	6	1	A:1	180
		Frederik De Belie -- Department of Electromechanical, Systems and Metal Engineering					
2	E037121	Displacement Pumps, Compressors and IC Engine Fundamentals	6	1	B:1	180
		Sebastian Verhelst -- Department of Electromechanical, Systems and Metal Engineering					
3	E019331	ICT and Mechatronics	6	1	B:2	180
		Guillaume Crevecoeur -- Department of Electromechanical, Systems and Metal Engineering					
4	E076221	Manufacturing Planning and Control	6	1	B:1	180
		Birger Raa -- Department of Industrial Systems Engineering and Product Design					
5	E040670	Mechanical Vibrations	6	1	A:2	180
		Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering					
6	E037321	Turbomachines	6	1	A:1	180
		Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering					
7	E035421	Sustainable Energy	3	1	B:1	90
		Jan Mertens -- Department of Electromechanical, Systems and Metal Engineering					
8	E032322	Sensor Based Measurement Systems	3	1	B:2	90
		Herbert De Smet -- Department of Electronics and Information Systems					
9	E030520	Power Electronics	3	1	B:2	90
		Hendrik Vansompel -- Department of Electromechanical, Systems and Metal Engineering					
10	E043070	Materials Selection in Mechanical Design	6	1	A:2	180
		Stijn Hertelé -- Department of Electromechanical, Systems and Metal Engineering					
11	E056600	Construction Techniques	3	1	A:2	90
		Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering					
12	E060122	Manufacturing and Total Quality Assurance	6	2	B:1	180
		Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering					
13	E037810	Safety of Electrical and Mechanical Installations	3	2	A:2	90
		Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering					
14	E045240	Computational Fluid Dynamics	6	2	B:2	180
		Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering					
15	E005220	Linear Systems	6	2	B:2	180
		Gert De Cooman -- Department of Electronics and Information Systems					
16	E055045	Introduction to Maritime Technology	6	2	B:1	180
		Evert Lataire -- Department of Civil Engineering					
17	E055030	General Arrangement, Structural Arrangements and Construction of Marine Structures	6	2	A:2	180
		Evert Lataire -- Department of Civil Engineering					
18	E054670	Design of Maritime Structures	3	2	A:1	90
		Evert Lataire -- Department of Civil Engineering					

2 Courses Related to the Main Subject — 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study

| 1 | E028700 | Thermal Installations | 6 | 1 | B:1 | 180 |

Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering

2.1 Master's Dissertation

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E091103	Master's Dissertation	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 2022-2023	f: annually, from 2023-2024	i: annually, from 2024-2025
b: tri-annually	d: bi-annually, from 2022-2023	g: bi-annually, from 2023-2024	j: bi-annually, from 2024-2025
	e: tri-annually, from 2022-2023	h: tri-annually, from 2023-2024	k: tri-annually, from 2024-2025