

Faculty of Engineering and Architecture

Master of Science in Electromechanical Engineering -- Control Engineering and Automation

Language of instruction: Dutch

Programme version 12

## 1 General Courses 90 credits

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

## 2 Courses Related to the Main Subject 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
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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  
cs: Czech  
da: Danish

de: German  
el: Greek  
en: English

es: Spanish  
fr: French  
it: Italian

ja: Japanese  
nl: Dutch  
no: Norwegian

pl: Polish  
pt: Portuguese  
ru: Russian

sh: Kroatian/Serbian  
sl: Slovene  
sv: Swedish

zh: Chinese

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  
b: tri-annually

c: annually, from 2023-2024  
d: bi-annually, from 2023-2024  
e: tri-annually, from 2023-2024

f: annually, from 2024-2025  
g: bi-annually, from 2024-2025  
h: tri-annually, from 2024-2025

i: annually, from 2025-2026  
j: bi-annually, from 2025-2026  
k: tri-annually, from 2025-2026