



Faculty of Engineering and Architecture

Master of Science in Electromechanical Engineering -- Maritime Engineering

Language of instruction: English

Programme version 13

1 General Courses						78 credits	
Nr	Course		CRDT	Ref	MT1	Session	Study
1	E044311	Structural Stability <i>Robby Caspee -- Department of Structural Engineering and Building Materials</i> <a href="#">Indicative price: € 20</a>	3		1	C:1	90
2	E045280	Computational Fluid Dynamics <i>Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 0</a>	3		1	A:1	90
3	E900069	Composites <i>Wim Van Paepelgem -- Department of Materials, Textiles and Chemical Engineering</i> <a href="#">Indicative price: € 20</a>	6		1	A:1	180
4	E048100	Fluid Machines <i>Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 0</a>	6		1	A:1	180
5	E055020	Marine Hydrostatics and Stability <i>Evert Lataire -- Department of Civil Engineering</i> <a href="#">Indicative price: € 1,020</a>	6		1	A:1	180
6	E048500	Thermal Machines <i>Sebastian Verhelst -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 0</a>	6		1	A:2	180
7	E056600	Construction Techniques <i>Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 0</a>	3		1	B:2	90
8	E048600	Vibrations and Signals <i>Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 12</a>	6		1	A:2	180
9	E044666	Offshore Structures <i>Andreas Kortenhaus -- Department of Civil Engineering</i> <a href="#">Indicative price: € 0</a>	3		1	B:2	90
10	E055070	Ship and Marine Structures <i>Philippe Rigo -- Department of Civil Engineering</i> <a href="#">Indicative price: € 1,030</a>	6		1	A:2	180
11	E055080	Ship Resistance and Propulsion <i>Guillaume Delefortrie -- Department of Civil Engineering</i> <a href="#">Indicative price: € 25</a>	6		1	A:2	180
12	E044671	Offshore Foundations <i>Bruno Stuyts -- Department of Civil Engineering</i> <a href="#">Indicative price: unknown</a>	3		2	B:1	90
13	E055060	Ship Manoeuvring and Seakeeping Behaviour of Floating Structures <i>Guillaume Delefortrie -- Department of Civil Engineering</i> <a href="#">Indicative price: € 25</a>	6		2	A:1	180
14	E029800	Domain-Specific Research Skills <i>Michel De Paeppe -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 0</a>	3		2	(A:1) <sup>c</sup>	90

15	E029700	General Research Skills <i>Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 0</a>	3	2	(A:1) <sup>c</sup>	90
16	E055320	Ship Behaviour in Shallow and Confined Water <i>Guillaume Delefortrie -- Department of Civil Engineering</i> <a href="#">Indicative price: € 25</a>	3	2	A:2	90
17	E055090	Ship Design Project <i>Guillaume Delefortrie -- Department of Civil Engineering</i> <a href="#">Indicative price: € 0</a>	6	2	A:J	180

## 2 Elective Courses

18 credits

Subscribe to 18 credit units from 3 elective modules from the following list. Subject to approval by the faculty.

### 2.1 Technical Elective Courses

6 credits

Subscribe to 6 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E054820	Inland Waterways and Locks <i>Tom De Mulder -- Department of Civil Engineering</i> <a href="#">Indicative price: € 40</a>	6			B:2	180
2	E054920	Coastal Engineering and Harbour Construction <i>Peter Troch -- Department of Civil Engineering</i> <a href="#">Indicative price: € 0</a>	6			B:1	180
3	E055400	Coastal Hydrodynamics <i>Peter Troch -- Department of Civil Engineering</i> <a href="#">Indicative price: € 15</a>	3			A:1	90
4	E037221	IC Engines: advanced design and research <i>Sebastian Verhelst -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 0</a>	3			A:2	90
5	E032650	Powertrains for Sustainable Transportation <i>Sebastian Verhelst -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: unknown</a>	3			(A:1) <sup>c</sup>	90
6	E037621	Gas Turbines <i>Ward De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: unknown</a>	3			A:1	90
7	E035421	Sustainable Energy <i>Jan Mertens -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: unknown</a>	3			A:1	90
8	E042730	Fracture Mechanics <i>Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering</i> <a href="#">Indicative price: € 0</a>	3			A:1	90
9	E055350	Underwater Vehicles <a href="#">Indicative price: € 25</a>	3			(A:2) <sup>d</sup>	90

### 2.2 Industry-Oriented Elective Courses

6 credits

Subscribe to 6 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E055550	Ships and Marine Industry <a href="#">Indicative price: unknown</a>	6			A:2	180
2	E099300	Industry Internship Engineering and Architecture [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i> <a href="#">Indicative price: unknown</a>	6			A:J	180

### 2.3 Non-Technical Elective Courses

6 credits

Subscribe to 6 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E076221	Manufacturing Planning and Control <i>Birger Raa -- Department of Industrial Systems Engineering and Product Design</i> <a href="#">Indicative price: € 0</a>	6			A:1	180
2	E076951	Engineering Economy <i>Sofie Verbrugge -- Department of Information Technology</i> <a href="#">Indicative price: € 60</a>	6			A:1	180

3	E076820	Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i> <a href="#">Indicative price: € 75</a>	6		A:2	180
4	F001020	Introduction to Entrepreneurship <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 33</a>	3		A:1	90
5	F000892	Innovation Management <i>Katrien Verleye -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 55</a>	3		A:2	90
6	E037830	Basics of Health and Safety at Work for Engineers [nl] <i>Sofie Van Volsem -- Department of Industrial Systems Engineering and Product Design</i> <a href="#">Indicative price: € 0</a>	3		A:1	90
7	A003001	Academic English <i>Geert Jacobs -- Department of Linguistics</i> <a href="#">Indicative price: € 0</a>	3	UKV	B:1, A:2	90
8	A003107	Advanced Academic English <i>Geert Jacobs -- Department of Linguistics</i> <a href="#">Indicative price: € 0</a>	3	UKV	A:1, B:2	90
9	F001021	Basic Entrepreneurship [nl] <i>Evy Van Lancker -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 0</a>	3	UKV	A:1	90
10	A005503	Context and Nuance. A Critical Reflection on Current Topics [nl] <i>July De Wilde -- Department of Translation, Interpreting and Communication</i> <a href="#">Indicative price: € 0</a>	6	UKV	A:1	180
11	H002395	Migration and Society: an Interdisciplinary Introduction <i>Robin Vandevordt -- Department of Social Work and Social Pedagogy</i> <a href="#">Indicative price: € 0</a>	5	UKV	A:2	150
12	A005569	Global Minds <i>Ines Keynaert -- Department of Public Health and Primary Care</i> <a href="#">Indicative price: € 0</a>	5	UKV	A:2	150
13	G000922	Animal Welfare, Law and Ethics [nl] <i>Sarne De Vliegher -- Department of Internal Medicine, Reproduction and Population Medicine</i> <a href="#">Indicative price: € 0</a>	3	UKV	A:2	90
14	B001581	Human Rights: Multidisciplinary Perspectives <i>Eva Brems -- Department of European, Public and International Law</i> <a href="#">Indicative price: unknown</a>	5	UKV	A:2	150
15	D002354	Movement and Sports: Now and Later [nl] <i>Veerle Segers -- Department of Movement and Sports Sciences</i> <a href="#">Indicative price: € 50</a>	3	UKV	A:2	90

### 3 Master's Dissertation

24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091103 Master's Dissertation <a href="#">Indicative price: unknown</a>	24		2	B:J	720

### Programme related study costs

None

## 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

## Learning materials

The prices stated are indicative and subject to fluctuations.

The list of learning materials per course unit can be found in the course sheets.