

Study Programme

Academic year 2026-2027

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 Robby Caspeele Department of Structural Engineering and Building Materials	3	1	C:1	90
2	E045280	Computational Fluid Dynamics Joris Degroote Department of Electromechanical, Systems and Metal Engineering	3	1	A:1	90
3	E900069	Composites Wim Van Paepegem Department of Materials, Textiles and Chemical Engineering	6	1	A:1	180
4	E048100	Fluid Machines Joris Degroote Department of Electromechanical, Systems and Metal Engineering	6	1	A:1	180
5	E055020	Marine Hydrostatics and Stability Evert Lataire Department of Civil Engineering	6	1	A:1	180
6	E048500	Thermal Machines Sebastian Verhelst Department of Electromechanical, Systems and Metal Engineering	6	1	A:2	180
7	E056600	Construction Techniques Wim De Waele Department of Electromechanical, Systems and Metal Engineering	3	1	B:2	90
8	E048600	Vibrations and Signals Mia Loccufier Department of Electromechanical, Systems and Metal Engineering	6	1	A:2	180
9	E044666	Offshore Structures Andreas Kortenhaus Department of Civil Engineering	3	1	B:2	90
10	E055070	Ship and Marine Structures Philippe Rigo Department of Civil Engineering	6	1	A:2	180
11	E055080	Ship Resistance and Propulsion Guillaume Delefortrie Department of Civil Engineering	6	1	A:2	180
12	E044671	Offshore Foundations Bruno Stuyts Department of Civil Engineering	3	2	B:1	90
13	E055060	Ship Manoeuvring and Seakeeping Behaviour of Floating Structures Guillaume Delefortrie Department of Civil Engineering	6	2	A:1	180
14	E029800	Domain-Specific Research Skills Michel De Paepe Department of Electromechanical, Systems and Metal Engineering	3	2	A:1	90
15	E029700	General Research Skills Michel De Paepe Department of Electromechanical, Systems and Metal Engineering	3	2	A:1	90
16	E055320	Ship Behaviour in Shallow and Confined Water Guillaume Delefortrie Department of Civil Engineering	3	2	A:2	90
17	E055090	Ship Design Project Guillaume Delefortrie Department of Civil Engineering	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.

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1	E054820	Inland Waterways and Locks Tom De Mulder Department of Civil Engineering	6		B:2	180
2	E054920	Coastal Engineering and Harbour Construction Peter Troch Department of Civil Engineering	6		B:1	180
3	E055400	Coastal Hydrodynamics Peter Troch Department of Civil Engineering	3		A:1	90
4	E037221	IC Engines: advanced design and research Sebastian Verhelst Department of Electromechanical, Systems and Metal Engineering	3		A:2	90
5	E032650	Powertrains for Sustainable Transportation Sebastian Verhelst Department of Electromechanical, Systems and Metal Engineering	3		A:1	90
6	E037621	Gas Turbines Ward De Paepe Department of Electromechanical, Systems and Metal Engineering	3		A:1	90
7	E035421	Sustainable Energy Jan Mertens Department of Electromechanical, Systems and Metal Engineering	3		A:2	90
8	E042730	Fracture Mechanics Wim De Waele Department of Electromechanical, Systems and Metal Engineering	3		A:1	90
9	E055350	Underwater Vehicles	3		A:2 ^a	90
2.	2 Industr	y-Oriented Elective Courses			6	credits
Su	bscribe to 6	credit units from the following list. Subject to approval by the faculty.				
Nr	Course		CRDT	Ref MT1	Session	Study
1		Ships and Marine Industry	6		A:2	180
2	E099300	Industry Internship Engineering and Architecture [en, nl] Patrick Segers Department of Electronics and Information Systems	6		A:J	180
2.	3 Non-Te	echnical Elective Courses			6	credits
		credit units from the following list. Subject to approval by the faculty.				
	Course		CRDT	Ref MT1	Session	Study
1	E076221	Manufacturing Planning and Control Birger Raa Department of Industrial Systems Engineering and Product Design	6		A:1	180
2	E076951	Engineering Economy Sofie Verbrugge Department of Information Technology	6		A:1	180
3	E076820	Project Management Mario Vanhoucke Department of Business Informatics and Operations Management	6		A:2	180
4	F001020	Introduction to Entrepreneurship Petra Andries Department of Marketing, Innovation and Organisation	3		A:1	90
5	F000892	Innovation Management Katrien Verleye Department of Marketing, Innovation and Organisation	3		A:2	90
6	E037830	Basics of Health and Safety at Work for Engineers [nl] Sofie Van Volsem Department of Industrial Systems Engineering and Product Design	3		A:1	90
7	A003001	Academic English Geert Jacobs Department of Linguistics	3	UKV	B:1, A:2	90
8	A003107	Advanced Academic English Geert Jacobs Department of Linguistics	3	UKV	A:1, B:2	90
9	F001021	Basic Entrepreneurship [nl] Evy Van Lancker Department of Marketing, Innovation and Organisation	3	UKV	A:1	90
10	A005503	Context and Nuance. A Critical Reflection on Current Topics [nl] July De Wilde Department of Translation, Interpreting and Communication	6	UKV	A:1	180
11	H002395	Migration and Society: an Interdisciplinary Introduction Robin Vandevoordt 'Department of Social Work and Social Pedagogy	5	UKV	A:2	150
12	A005569	Global Minds Ines Keygnaert Department of Public Health and Primary Care	5	UKV	A:2	150
13	G000922	Animal Welfare, Law and Ethics [nl] Sarne De Vliegher Department of Internal Medicine, Reproduction and Population Medicine	3	UKV	A:2	90
14	B001581	Human Rights: Multidisciplinary Perspectives Eva Brems Department of European, Public and International Law	5	UKV	A:2	150
15	D002354	Movement and Sports: Now and Later [nl] Veerle Segers Department of Movement and Sports Sciences	3	UKV	A:2	90

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Nr Course CRDT Ref MT1 Session Study
1 E091103 Master's Dissertation 24 2 B:J 720

24 credits

Teaching

Master's Dissertation

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

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 2027-2028 f: annually, from 2028-2029 i: annually, from 2029-2030 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

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