

Faculty of Engineering and Architecture

Master of Science in Engineering: Ships and Marine Technology

Language of instruction: English

Programme version 1

1 General Courses 78 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E044311 Structural Stability <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	3		1	C:1	90
2	E045280 Computational Fluid Dynamics <i>Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering</i>	3		1	A:1	90
3	E900069 Composites <i>Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	A:1	180
4	E048100 Fluid Machines	6		1	A:1	180
5	E055020 Marine Hydrostatics and Stability <i>Evert Lataire -- Department of Civil Engineering</i>	6		1	A:1	180
6	E048500 Thermal Machines	6		1	A:2	180
7	E056600 Construction Techniques <i>Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering</i>	3		1	B:2	90
8	E048600 Vibrations and Signals	6		1	A:2	180
9	E044666 Offshore Structures <i>Andreas Kortenhaus -- Department of Civil Engineering</i>	3		1	B:2	90
10	E055070 Ship and Marine Structures <i>Phillippe Rigo -- Department of Civil Engineering</i>	6		1	A:2	180
11	E055080 Ship Resistance and Propulsion <i>Guillaume Delefortrie -- Department of Civil Engineering</i>	6		1	A:2	180
12	E044671 Offshore Foundations <i>Bruno Stuyts -- Department of Civil Engineering</i>	3		2	B:1	90
13	E055060 Ship Manoeuvring and Seakeeping Behaviour of Floating Structures <i>Guillaume Delefortrie -- Department of Civil Engineering</i>	6		2	A:1	180
14	E029800 Domain-Specific Research Skills	3		2	(A:1) ^c	90
15	E029700 General Research Skills	3		2	(A:1) ^c	90
16	E055320 Ship Behaviour in Shallow and Confined Water <i>Guillaume Delefortrie -- Department of Civil Engineering</i>	3		2	A:2	90
17	E055090 Ship Design Project <i>Guillaume Delefortrie -- Department of Civil Engineering</i>	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>	6			B:2	180
2	E054920 Coastal Engineering and Harbour Construction <i>Peter Troch -- Department of Civil Engineering</i>	6			B:1	180

3	E055400	Coastal Hydrodynamics <i>Peter Troch -- Department of Civil Engineering</i>	3			A:1	90
4	E037221	IC Engines: advanced design and research <i>Sebastian Verhelst -- Department of Electromechanical, Systems and Metal Engineering</i>	3			A:2	90
5	E032650	Powertrains for Sustainable Transportation	3				90
6	E037621	Gas Turbines <i>Ward De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i>	3			A:1	90
7	E035421	Sustainable Energy <i>Jan Mertens -- Department of Electromechanical, Systems and Metal Engineering</i>	3			A:1	90
8	E042730	Fracture Mechanics <i>Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering</i>	3			A:1	90
9	E055350	Underwater Vehicles	3			(A:2) ^d	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	6			A:2	180
2	E099300 Industry Internship Engineering and Architecture [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	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 Raai -- Department of Industrial Systems Engineering and Product Design</i>	6			A:1	180
2	E076951 Engineering Economy <i>Sofie Verbrugge -- Department of Information Technology</i>	6			A:1	180
3	E076820 Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	6			A:2	180
4	F001020 Introduction to Entrepreneurship <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i>	3			A:1	90
5	F000892 Innovation Management <i>Katrien Verleye -- Department of Marketing, Innovation and Organisation</i>	3			A:2	90
6	E037830 Basics of Health and Safety at Work for Engineers [nl]	3			A:1	90
7	A003001 Academic English <i>Geert Jacobs -- Department of Linguistics</i>	3	UKV		B:1, A:2	90
8	A003107 Advanced Academic English <i>Geert Jacobs -- Department of Linguistics</i>	3	UKV		A:1, B:2	90
9	F001021 Basic Entrepreneurship [nl] <i>Yannick Dillen -- Department of Marketing, Innovation and Organisation</i>	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>	6	UKV		A:1	180
11	H002395 Migration and Society: an Interdisciplinary Introduction <i>Robin Vandevordt -- Department of Social Work and Social Pedagogy</i>	5	UKV		A:2	150
12	A005569 Global Minds <i>Ines Keygnaert -- Department of Public Health and Primary Care</i>	5	UKV		A:2	150
13	G000922 Animal Welfare, Law and Ethics [nl] <i>Sarne De Vlieghe -- Department of Internal Medicine, Reproduction and Population Medicine</i>	3	UKV		A:2	90
14	B001581 Human Rights: Multidisciplinary Perspectives <i>Eva Brems -- Department of European, Public and International Law</i>	5	UKV		A:2	150
15	D002354 Movement and Sports: Now and Later [nl] <i>Veerle Segers -- Department of Movement and Sports Sciences</i>	3	UKV		A:2	90

3 Master's Dissertation

24 credits

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