

Study Programme

Academic year 2025-2026

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 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) ^c	90			
15	E029700	General Research Skills Michel De Paepe Department of Electromechanical, Systems and Metal Engineering	3	2	(A:1) ^c	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			
Su	bscribe to 18	credit units from 3 elective modules from the following list. Subject to app	roval by the fa	aculty.					
2.	1 Techni	2.1 Technical Elective Courses 6 credits							

2.1 Technical Elective Courses

Subscribe to 6 credit units from the following list. Subject to approval by the faculty.				
Nr Course	CRDT		Session	Study

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) ^c	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) ^d	90
2.2	2 Industr	y-Oriented Elective Courses			6	credits
Sul	oscribe to 6 o	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] Patrick Segers Department of Electronics and Information Systems	6		A:J	180
2.:	3 Non-Te	echnical Elective Courses			6	credits
<mark>Su</mark> Nr	o <mark>scribe to 6</mark> d Course	credit units from the following list. Subject to approval by the faculty.	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

3 Master's Dissertation 24 of the second sec					redits	
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 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:

b: tri-annually	a: bi-annually	
	b: tri-annually	

c: annually, from 2026-2027 d: bi-annually, from 2026-2027 e: tri-annually, from 2026-2027 f: annually, from 2027-2028 g: bi-annually, from 2027-2028 h: tri-annually, from 2027-2028 i: annually, from 2028-2029 j: bi-annually, from 2028-2029 k: tri-annually, from 2028-2029