GHENT UNIVERSITY

Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture

Master of Science in Electromechanical Engineering -- Maritime Engineering

Language of instruction: Dutch

Programme version 13

1 General Courses — 90 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E036130	Controlled Electrical Drives *Frederik De Belie -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:1	180
2	E037121	Displacement Pumps, Compressors and IC Engine Fundamentals *Sebastian Verhelst -- Department of Electromechanical, Systems and Metal Engineering*	6		1	B:1	180
3	E019331	ICT and Mechatronics *Guillaume Crevecoeur -- Department of Electromechanical, Systems and Metal Engineering*	6		1	B:2	180
4	E076221	Manufacturing Planning and Control *Birger Raa -- Department of Industrial Systems Engineering and Product Design*	6		1	B:1	180
5	E040670	Mechanical Vibrations *Mia Loccufier -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:2	180
6	E037321	Turbomachines *Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:1	180
7	E035421	Sustainable Energy *Jan Mertens -- Department of Electromechanical, Systems and Metal Engineering*	3		1	B:1	90
8	E032322	Sensor Based Measurement Systems *Herbert De Smet -- Department of Electronics and Information Systems*	3		1	B:2	90
9	E030520	Power Electronics *Hendrik Vansompel -- Department of Electromechanical, Systems and Metal Engineering*	3		1	B:2	90
10	E043070	Materials Selection in Mechanical Design *Stijn Hertelé -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:2	180
11	E056600	Construction Techniques *Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering*	3		1	A:2	90
12	E060122	Manufacturing and Total Quality Assurance *Wim De Waele -- Department of Electromechanical, Systems and Metal Engineering*	6		2	B:1	180
13	E037810	Safety of Electrical and Mechanical Installations *Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering*	3		2	A:2	90
14	E045240	Computational Fluid Dynamics *Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering*	6		2	B:2	180
15	E005220	Linear Systems *Gert De Cooman -- Department of Electronics and Information Systems*	6		2	B:2	180
16	E055020	Marine Hydrostatics and Stability *Evert Lataire -- Department of Civil Engineering*	6		2	B:1	180
17	E055070	Ship and Marine Structures *Philippe Rigo -- Department of Civil Engineering*	6		2	B:2	180
18	E054670	Design of Maritime Structures *Evert Lataire -- Department of Civil Engineering*	3		2	A:1	90

2 Courses Related to the Main Subject — 30 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E055080	Ship Resistance and Propulsion *Guillaume Delefortrie -- Department of Civil Engineering*	6		1	B:2	180

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	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:

a: bi-annually	c: annually, from 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028