

Study Programme

Academic year 2021-2022

Faculty of Engineering and Architecture

Master of Science in Electromechanical Engineering -- Mechanical Energy Engineering

Language of instruction: Dutch

Programme version 12

E036130 Controlled Electrical Drives Frederic We Bellet - Department of Electromechanical, Systems and Metal Engineering Seassifian Venerical Pumps, Compressors and IC Engine Fundamentals 6	Genera	l Courses	urses 90 credits					
Frederik De Belie — Department of Electromechanical, Systems and Metal Engineering E037121 Displacement Pumps, Compressors and IC Engine Fundamentals E019331 ICT and Mechatronics Guillaume Crewcown — Department of Electromechanical, Systems and Metal Engineering E076221 Manufacturing Planning and Control Manufacturing Planning and Control E076221 Manufacturing Planning and Control Mechanical Vibrations Mal occurier — Department of Electromechanical, Systems and Metal Engineering E046670 Mechanical Vibrations Mal occurier — Department of Electromechanical, Systems and Metal Engineering E03721 Turbomachines Mal occurier — Department of Electromechanical, Systems and Metal Engineering E03722 Turbomachines Sustainable Energy And Metals—Department of Electromechanical, Systems and Metal Engineering E038222 Sensor Based Measurement Systems Metals Engineering E038222 Sensor Based Measurement Systems and Metal Engineering E039322 Power Electronics Metals Engineering E043070 Materials Selection in Mechanical Design Sign Interies — Department of Electromechanical, Systems and Metal Engineering E043070 Materials Selection in Mechanical Design Sign Interies — Department of Electromechanical, Systems and Metal Engineering E06002 Construction Techniques Manufacturing and Total Quality Assurance Winn De Made — Department of Electromechanical, Systems and Metal Engineering E060122 Manufacturing and Total Quality Assurance Winn Design of Electromechanical, Systems and Metal Engineering E060520 Computational Fluid Dynamics Jost Rockcaert — Department of Electromechanical, Systems and Metal Engineering E060520 Computational Fluid Dynamics Jost Rockcaert — Department of Electromechanical, Systems and Metal Engineering E060520 Computational Fluid Dynamics Jost Rockcaert — Department of Electromechanical, Systems and Metal Engineering E060520 Computational Fluid Dynamics Jost Rockcaert — Department of Civil Engineering E060520 Computational Fluid Dynamics Jost Rockcaert — Department of Civil Engineering E06052	Ir Course		CRDT	Ref MT1	Session	Study		
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Guillaume Crevecoeur Department of Electromechanical, Systems and Metal Engineering Bird Bi	E037121	•	6	1	B:1	180		
Birger Raa - Department of Industrial Systems Engineering and Product Design	E019331		6	1	B:2	180		
Mia Loccufier Department of Electromechanical, Systems and Metal Engineering 7 E035421 Turbomachines	E076221	3 . 3	6	1	B:1	180		
Joris Degrande Department of Electromechanical, Systems and Metal Engineering Sustainable Energy Jan Mertens Department of Electromechanical, Systems and Metal Engineering E032322 Sensor Based Measurement Systems Herbert De Smet Department of Electronics and Information Systems Power Electronics Hendrik Vansompel Department of Electromechanical, Systems and Metal Engineering E043070 Materials Selection in Mechanical Design Stiln Hertele Department of Electromechanical, Systems and Metal Engineering E056600 Construction Techniques Wim De Waele Department of Electromechanical, Systems and Metal Engineering E060122 Manufacturing and Total Quality Assurance Wim De Waele Department of Electromechanical, Systems and Metal Engineering Safety of Electrical and Mechanical Installations Jos Knockaert Department of Electromechanical, Systems and Metal Engineering A:2 Systems E045240 Computational Fluid Dynamics Jors Degrander of Electromechanical, Systems and Metal Engineering E055045 Introduction to Maritime Technology Evert Lataire Department of Electromichanical, Systems and Metal Engineering E055045 Introduction to Maritime Technology Evert Lataire Department of Evert Engineering E055045 General Arrangement, Structural Arrangements and Construction of Maritime Structures Evert Lataire Department of Civil Engineering E056070 Design of Maritime Structures Evert Lataire Department of Civil Engineering	E040670		6	1	A:2	180		
Jan Mertens Department of Electromechanical, Systems and Metal Engineering 8 E032322 Sensor Based Measurement Systems Herbert De Smet Department of Electronics and Information Systems 9 E030520 Power Electronics Hendrik Vansompel Department of Electromechanical, Systems and Metal Engineering 10 E043070 Materials Selection in Mechanical Design Stijn Herbetle Department of Electromechanical, Systems and Metal Engineering 11 E056600 Construction Techniques Wim De Waele Department of Electromechanical, Systems and Metal Engineering 12 E060122 Manufacturing and Total Quality Assurance Wim De Waele Department of Electromechanical, Systems and Metal Engineering 13 E037810 Safety of Electrical and Mechanical Installations Jos Knockaert Department of Electromechanical, Systems and Metal Engineering 14 E045240 Computational Fluid Dynamics Joris Degroote Department of Electromechanical, Systems and Metal Engineering 15 E005220 Linear Systems Gert De Comman Department of Electromechanical, Systems Gert De Comman Department of Civil Engineering 16 E055045 Introduction to Maritime Technology Evert Lataire Department of Civil Engineering 17 E055030 General Arrangement, Structural Arrangements and Construction of Maritime Structures Evert Lataire Department of Civil Engineering 18 E054670 Design of Maritime Structures Evert Lataire Department of Civil Engineering	E037321		6	1	A:1	180		
Herbert De Smet Department of Electronics and Information Systems Security Superation	E035421	37	3	1	B:1	90		
Hendrik Vansompel Department of Electromechanical, Systems and Metal Engineering 10 E043070 Materials Selection in Mechanical Design 6 1 A:2 11 E056600 Construction Techniques 3 1 A:2 S Wim De Waele Department of Electromechanical, Systems and Metal Engineering 12 E060122 Manufacturing and Total Quality Assurance 6 2 B:1 13 E037810 Safety of Electrical and Mechanical Installations 3 2 A:2 S Jos Knockaert Department of Electromechanical, Systems and Metal Engineering 14 E045240 Computational Fluid Dynamics 6 2 B:2 13 E005220 Linear Systems 6 2 B:2 15 Eert De Comman Department of Electromechanical, Systems and Metal Engineering 16 E055045 Introduction to Maritime Technology Evert Lataire Department of Civil Engineering 17 E055030 General Arrangement, Structural Arrangements and Construction of Marine Structures Evert Lataire Department of Civil Engineering 18 E054670 Design of Maritime Structures Evert Lataire Department of Civil Engineering	E032322		3	1	B:2	90		
Stijn Hertelé Department of Electromechanical, Systems and Metal Engineering 11 E056600 Construction Techniques Wim De Waele Department of Electromechanical, Systems and Metal Engineering 12 E060122 Manufacturing and Total Quality Assurance Wim De Waele Department of Electromechanical, Systems and Metal Engineering 13 E037810 Safety of Electrical and Mechanical Installations Jos Knockaert Department of Electromechanical, Systems and Metal Engineering 14 E045240 Computational Fluid Dynamics Joris Degroote Department of Electromechanical, Systems and Metal Engineering 15 E005220 Linear Systems Gert De Cooman Department of Electronics and Information Systems 16 E055045 Introduction to Maritime Technology Evert Lataire Department of Civil Engineering 17 E055030 General Arrangement, Structural Arrangements and Construction of Marine Structures Evert Lataire Department of Civil Engineering 18 E054670 Design of Maritime Structures Evert Lataire Department of Civil Engineering	E030520		3	1	B:2	90		
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Jos Knockaert Department of Electromechanical, Systems and Metal Engineering 14 E045240 Computational Fluid Dynamics 6 2 B:2 16 Joris Degroote Department of Electromechanical, Systems and Metal Engineering 15 E005220 Linear Systems 6 2 B:2 16 Gert De Cooman Department of Electronics and Information Systems 16 E055045 Introduction to Maritime Technology 6 2 B:1 16 Evert Lataire Department of Civil Engineering 17 E055030 General Arrangement, Structural Arrangements and Construction of 6 2 A:2 16 Marine Structures Evert Lataire Department of Civil Engineering 18 E054670 Design of Maritime Structures 3 2 A:1 9 Evert Lataire Department of Civil Engineering	2 E060122	· · · · · · · · · · · · · · · · · · ·	6	2	B:1	180		
Joris Degroote Department of Electromechanical, Systems and Metal Engineering Linear Systems Gert De Cooman Department of Electronics and Information Systems Introduction to Maritime Technology Evert Lataire Department of Civil Engineering General Arrangement, Structural Arrangements and Construction of Marine Structures Evert Lataire Department of Civil Engineering Revert Lataire Department of Civil Engineering Big 18 Bi	3 E037810	•	3	2	A:2	90		
Gert De Cooman Department of Electronics and Information Systems 16 E055045 Introduction to Maritime Technology 6 2 B:1 18 Evert Lataire Department of Civil Engineering 17 E055030 General Arrangement, Structural Arrangements and Construction of 6 2 A:2 18 Marine Structures Evert Lataire Department of Civil Engineering 18 E054670 Design of Maritime Structures Evert Lataire Department of Civil Engineering	4 E045240	·	6	2	B:2	180		
Introduction to Maritime Technology Evert Lataire Department of Civil Engineering General Arrangement, Structural Arrangements and Construction of Marine Structures Evert Lataire Department of Civil Engineering Belos 4670 Design of Maritime Structures Evert Lataire Department of Civil Engineering	5 E005220	•	6	2	B:2	180		
17 E055030 General Arrangement, Structural Arrangements and Construction of 6 2 A:2 16 Marine Structures Evert Lataire Department of Civil Engineering 18 E054670 Design of Maritime Structures Evert Lataire Department of Civil Engineering	6 E055045	Introduction to Maritime Technology	6	2	B:1	180		
Evert Lataire Department of Civil Engineering	7 E055030	Marine Structures	6	2	A:2	180		
2 Courses Related to the Main Subject 30 cred	8 E054670		3	2	A:1	90		
	2 Course	s Related to the Main Subject			30	credits		

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1 E028700 Thermal Installations 6 1 B:1 180

Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering

2.1 Master's Dissertation

Nr Co	ırse	CRDT F	Ref MT1	Session	Study
1 E09	1103 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 2022-2023 f: annually, from 2023-2024 i: annually, from 2024-2025 b: tri-annually d: bi-annually, from 2022-2023 g: bi-annually, from 2023-2024 j: bi-annually, from 2024-2025 e: tri-annually, from 2022-2023 h: tri-annually, from 2023-2024 k: tri-annually, from 2024-2025

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