

Study Programme

Academic year 2024-2025

Faculty of Engineering and Architecture

Master of Science in Electromechanical Engineering -- Mechanical Energy Engineering

Language of instruction: English Programme version 12

1	General	Courses			36 (credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	E036130	Controlled Electrical Drives Frederik De Belie Department of Electromechanical, Systems and Metal Eng	6 gineering	1	B:1	180
2	E037321	Turbomachines Joris Degroote Department of Electromechanical, Systems and Metal Engine	6 eering	1	B:1	180
3	E037121	Displacement Pumps, Compressors and IC Engine Fundamentals Sebastian Verhelst Department of Electromechanical, Systems and Metal Er	6 ngineering	1 9	A:1	180
4	E040670	Mechanical Vibrations Mia Loccufier Department of Electromechanical, Systems and Metal Enginee	6 ering	1	B:2	180
5	E019331	ICT and Mechatronics Guillaume Crevecoeur Department of Electromechanical, Systems and Meta	6 al Enginee	2 ering	A:2	180
6	E076221	Manufacturing Planning and Control Birger Raa Department of Industrial Systems Engineering and Product Desig	6 gn	2	A:1	180

Courses Related to the Main Subject

Nr	Course		CRDT Re	ef MT1	Session	Study
1	E045240	Computational Fluid Dynamics Joris Degroote Department of Electromechanical, Systems and Metal Engir	6 neering	1	A:2	180
2	E028700	Thermal Installations Michel De Paepe Department of Electromechanical, Systems and Metal En	6 igineering	1	A:1	180
3	E043070	Materials Selection in Mechanical Design Stijn Hertelé Department of Electromechanical, Systems and Metal Engined	6 ering	1	B:2	180
4	E032322	Sensor Based Measurement Systems Herbert De Smet Department of Electronics and Information Systems	3	1	A:2	90
5	E037221	IC Engines: advanced design and research Sebastian Verhelst Department of Electromechanical, Systems and Metal E	3 Engineering	1	A:2	90
6	E039211	Heating, Ventilation, Air-conditioning and Refrigeration Steven Lecompte Department of Electromechanical, Systems and Metal Er	3 ngineering	2	A:1	90
7	E037621	Gas Turbines Ward De Paepe Department of Electromechanical, Systems and Metal Eng	3 gineering	2	A:1	90
8	E035421	Sustainable Energy Jan Mertens Department of Electromechanical, Systems and Metal Engine	3 ering	2	A:1	90
9	E040560	Fluid Mechanics Joris Degroote Department of Electromechanical, Systems and Metal Engin	3 neering	2	A:1	90
3	Elective	Courses			24 (credits

Subscribe to 24 credit units from 1 path from the following list. Subject to approval by the faculty. 3.1

3.1.1 Elective Social Courses

Subscribe to no less than 6 credit units from the following list. Subject to approval by the faculty. The course 'Safety of Electrical and Mechanical Installations' is compulsory. Students may apply for another elective social course, given a clear motivation and after approval by the faculty (exceptionally, as a rule a course from the list below is followed).

36 credits

1	E099300	Industry Internship Engineering and Architecture [en, nl] Patrick Segers Department of Electronics and Information Systems	6		A:J	180
2	E098010	Integrated Portfolio [en, nl] Hiep Luong Department of Telecommunications and Information Processing	6		A:J	180
3	E098010	Integrated Portfolio [en, nl] Hiep Luong Department of Telecommunications and Information Processing	3		B:J	90
4	E037810	Safety of Electrical and Mechanical Installations [nl] Jos Knockaert Department of Electromechanical, Systems and Metal Engineerir	3 ng		A:2	90
5	E039060	Sustainable Energy and Rational Use of Energy Jeroen Beeckman Department of Electronics and Information Systems	4		A:2	120
6	E078310	Sustainable Use of Materials: Metals [nl] Kim Verbeken Department of Materials, Textiles and Chemical Engineering	3		A:1	90
7	E078320	Sustainable Use of Materials: Plastics and Derived Materials [nl] Lode Daelemans Department of Materials, Textiles and Chemical Engineering	3		A:2	90
8	E078010	Technology and Environment Luc Martens Department of Information Technology	3		A:1	90
9	E078752	Water and Air Quality Management Joris Thybaut Department of Materials, Textiles and Chemical Engineering	4		A:2	120
10	E092100	Biosystems [nl] Pascal Verdonck Department of Electronics and Information Systems	3		A:1	90
11		Ethics, Engineering and Society [nl] Seppe Segers Department of Philosophy and Moral Sciences	3		A:2	90
12	C004009	History and Philosophy of Sciences [nl] Maarten Van Dyck Department of Philosophy and Moral Sciences	3		A:1	90
13	E076320	The Information Society and ICT [nl] Erik Mannens Department of Electronics and Information Systems	3		A:2	90
14	A001900	Introduction to Psychology [nl] Wim Notebaert Department of Experimental Psychology	3		A:1	90
15	H001977	Coaching and Diversity [nl] Elisabeth De Schauwer Department of Special Education	3	UKV	A:J	90
16		Context and Nuance. A Critical Reflection on Current Topics [nl] Stef Craps Department of Literary Studies	6	UKV	A:1	180
17	E076450	Basic Entrepreneurship [nl]	3	UKV	A:1	90
		Introduction to Corporate Law [nl] Diederik Bruloot Department of Interdisciplinary Study of Law, Private Law and I	3 Busine	ess Law	A:1	90
19	E076460	Dare to Venture Johan Verrue Department of Marketing, Innovation and Organisation	4		A:2	120
20		Dare to Start Frank Gielen Department of Information Technology	3		A:2	90
21	E076621	Principles of Law and Construction Law [nl] Jelle Laverge Department of Architecture and Urban Planning	3		A:1	90
22	E076951	Engineering Economy Sofie Verbrugge Department of Information Technology	6		A:1	180
23	E076431	Introduction to Entrepreneurship Petra Andries Department of Marketing, Innovation and Organisation	3		A:1	90
24		Powerful Learning Environments [nl] Bram De Wever Department of Educational Studies	6		A:1	180
25	H002196	Classroom Management and Reflection [nl] Melissa Tuytens Department of Educational Studies	4		A:2	120
26		The Teacher within School and Society [nl] Melissa Tuytens Department of Educational Studies	4		A:1	120
27	H002198	Psychology of Adolescence [nl] Wim Beyers Department of Developmental, Personality and Social Psychology	4		A:1	120
28	F000083	Macroeconomics [nl] Freddy Heylen Department of Economics	6		A:1	180
29	H001010	Introduction Industrial Psychology [nl] Bart Wille Department of Developmental, Personality and Social Psychology	5		A:2	150

30 F000551	Business Skills Mieke Audenaert Department of Marketing, Innovation and Organisation	4		C:2	120
31 A003001	Academic English Geert Jacobs Department of Linguistics	3	UKV	B:1, A:2	90
32 E075800	Communication [nl] Leen Pollefliet Department of Information Technology	3		A:1	90

3.1.2 Elective Courses Electromechanical Engineering/Faculty

Subscribe to at least 6 credit units from no less than 1 and no more than 2 modules from the following list. Subject to approval by the faculty.

3.1.2.1 Elective Courses Electromechanical Engineering

Nr Course		CRDT Ref MT1	Session	Study
1 E061621	Automotive Technology Sebastian Verhelst Department of Electromechanical, Systems and Metal E	3 ngineering	A:2	90
2 E045930	Modelling of Turbulence and Combustion Alexander Snegirev Department of Structural Engineering and Building Mate	3 erials	A:1	90
3 E061960	Aeroplanes Benoît Marinus Department of Electromechanical, Systems and Metal Engin	3 neering	A:1	90
4 E038320	Nuclear Reactor Technology Matthias Vanderhaegen Department of Electromechanical, Systems and Me	6 etal Engineering	A:2ª	180
5 E038030	Nuclear Reactor Theory: part 2 Matthias Vanderhaegen Department of Electromechanical, Systems and Me	3 etal Engineering	A:1	90
6 E028330	Thermal-hydraulics and Safety Analysis of Nuclear Systems Greet Maenhout Department of Electromechanical, Systems and Metal Engi	6 ineering	(A:2) ^d	180
7 E055320	Ship Behaviour in Shallow and Confined Water Guillaume Delefortrie Department of Civil Engineering	3	A:2	90
8 E040560	Fluid Mechanics Joris Degroote Department of Electromechanical, Systems and Metal Engine	3 eering	A:1	90
9 E004160	Numerical Optimisation Jolan Wauters Department of Electromechanical, Systems and Metal Engine	3 eering	A:1	90
10 F000845	Business Administration [nl] Mirjam Knockaert Department of Marketing, Innovation and Organisation	4	A:2	120
11 F000551	Business Skills Mieke Audenaert Department of Marketing, Innovation and Organisation	4	C:2	120
12 E051610	Passive Fire Protection Emmanuel Annerel Department of Structural Engineering and Building Mate	3 rrials	A:1	90
13 E051540	Explosions and Industrial Fire Safety Filip Verplaetsen Department of Structural Engineering and Building Materia	6 Ils	A:1	180
14 B001375	Energy Law [nl] Frederik Vandendriessche Department of European, Public and Internationa	4 al Law	A:2	120
15 E053642	Railway Technology Fundamentals Hendrik Bonne Department of Electromechanical, Systems and Metal Engin	3 eering	A:1	90
16 E053643	Advanced Railway Technology Hendrik Bonne Department of Electromechanical, Systems and Metal Engin	3 eering	A:2	90
17 E053620	Railroads [nl] Jan Mys Department of Civil Engineering	3	A:2	90

3.1.2.2 Elective Courses Faculty of Engineering and Architecture

Subscribe to course units from the study programmes of the Faculty of Engineering and Architecture. Subject to approval by the faculty.

3.1.3 Elective Courses Ghent University

Subscribe to course units from the programmes of Ghent University including the Ghent University Elective Courses. Subject to approval by the faculty. List of Ghent University Elective Courses

3.2 Elective Courses: Path 2

3.2.1 Minor Operations Management

Subscribe to 24 credit units from the following list, with 6 credit units with reference a. Subject to approval by the faculty.							
Nr Course		Session	Study				
1 E076221 Manufacturing Planning and Control	6 a	A:1	180				
Birger Raa Department of Industrial Systems Engineering and Prod	luct Design						

2	E004255	Operations Research Models and Methods El-Houssaine Aghezzaf Department of Industrial Systems E	6 ingineering and Product Design	A:1	180
3	E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineerin	6 ig and Product Design	A:2	180
4	E076951	Engineering Economy Sofie Verbrugge Department of Information Technology	6	A:1	180

3.2.2 Minor Environment and Sustainable Development

Nr Course		CRDT Ref MT1	Session	Study
1 C002275	Environmental Law [nl] Hendrik Schoukens Department of European, Public and International Law	5	A:1	125
2 1002700	Clean Technology Sophie Huysveld Department of Green Chemistry and Technology	5	A:1	150
3 E065460	Rational Use of Materials Tom Depover Department of Materials, Textiles and Chemical Engineering	5	A:1	150
4 E078752	Water and Air Quality Management Joris Thybaut Department of Materials, Textiles and Chemical Engineering	4	A:2	120
5 E039060	Sustainable Energy and Rational Use of Energy Jeroen Beeckman Department of Electronics and Information Systems	4	A:2	120
6 E078061	Introduction to Environmental Risk Assessment Karel De Schamphelaere Department of Animal Sciences and Aquatic Ecology	3	A:1	90
7 1002606	Environmental Risk Assessment Karel De Schamphelaere Department of Animal Sciences and Aquatic Ecology	5	A:1	150

3.2.3 Minor Biosystems

Su	Subscribe to 24 credit units from the following list, with no less than 8 credit units with reference a. Subject to approval by the faculty.						
Nr			CRDT		Session	Study	
1	E092623	Modelling of Physiological Systems Patrick Segers Department of Electronics and Information Systems	5	а	A:2	150	
2	E092662	From Genome to Organism Fransiska Malfait Department of Biomolecular Medicine	3	а	A:1	90	
3	E074011	Quantitative Cell and Tissue Analysis Andre Skirtach Department of Biotechnology	6	а	A:1	180	
4	E063671	Biomaterials and Tissue Engineering Peter Dubruel Department of Organic Chemistry	5		A:1	150	
5	E063682	Biomechanics Charlotte Debbaut Department of Electronics and Information Systems	6		A:1	180	
6	E010371	Medical Imaging Stefaan Vandenberghe Department of Electronics and Information Systems	6		A:1	180	

3.2.4 Minor Automotive Production Engineering

Subscribe to 24 credit units from the following list, with
no less than 6 credit units from the courses with reference a,
no less than 6 credit units from the courses with reference b.
Subject to approval by the faculty.

Nr					Session	Study
1	E076221	Manufacturing Planning and Control Birger Raa Department of Industrial Systems Engineering and Product Desig	6 n	а	A:1	180
2	E076380	Methods Engineering and Work Measurement Dieter Claeys Department of Industrial Systems Engineering and Product Des	6 sign	а	A:2	180
3	E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product De	6 esign	а	A:2	180
4	E066662	Environmentally Assisted Degradation of Materials Kim Verbeken Department of Materials, Textiles and Chemical Engineering	6	b	A:2	180
5	E066270	Metal Processing and Technology Tuan Nguyen Minh Department of Electromechanical, Systems and Metal En	6 gineering	b	A:2	180
6	E900069	Composites Wim Van Paepegem Department of Materials, Textiles and Chemical Engine	6 ering	b	A:1	180
7	E043070	Materials Selection in Mechanical Design Stijn Hertelé Department of Electromechanical, Systems and Metal Engineeri	6 ing	b	B:2	180
8	E061322	Machine Design Dieter Fauconnier Department of Electromechanical, Systems and Metal Eng	6 jineering	С	A:1	180

9 E037121	Displacement Pumps, Compressors and IC Engine Fundamentals Sebastian Verhelst Department of Electromechanical, Systems and Metal Engi	6 neering	с	A:1	180
10 E037221	IC Engines: advanced design and research Sebastian Verhelst Department of Electromechanical, Systems and Metal Eng	3 neering	С	A:2	90
11 E061621	Automotive Technology Sebastian Verhelst Department of Electromechanical, Systems and Metal Eng	3 neering	С	A:2	90
12 E007920	Computer Control of Industrial Processes Clara-Mihaela Ionescu Department of Electromechanical, Systems and Metal B	6 Engineer	C ing	A:1	180
13 E008420	Servo Systems and Industrial Robots Guillaume Crevecoeur Department of Electromechanical, Systems and Metal E	3 Engineer	C ing	A:1	90
14 E030520	Power Electronics Hendrik Vansompel Department of Electromechanical, Systems and Metal Eng	3 jineering	c	A:2	90

3.3 Elective Courses: Path 3

Subscribe to 24 credit units from 2 modules from the following list. Subject to approval by the faculty. 3.3.1 Elective Courses: Minors

Subscribe to 18 credit units from 1 minor from the following list. Subject to approval by the faculty. 3.3.1.1 Minor Operations Management

Subscribe to 18 credit units from the following list, with 6 credit units with reference a. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E076221	Manufacturing Planning and Control Birger Raa Department of Industrial Systems Engineering and Product Des	6 sign	а		A:1	180
2	E004255	Operations Research Models and Methods El-Houssaine Aghezzaf Department of Industrial Systems Engineering and	6 I Product D	esign		A:1	180
3	E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product	6 Design			A:2	180
4	E076951	Engineering Economy Sofie Verbrugge Department of Information Technology	6			A:1	180

3.3.1.2 Minor Biosystems

Subscribe to 18 credit units from the following list, with no less than 8 credit units with reference a. Subject to approval by the faculty.

Nr Course		CRDT	Ref	MT1	Session	Study
1 E092623	Modelling of Physiological Systems Patrick Segers Department of Electronics and Information Systems	5	а		A:2	150
2 E092662	From Genome to Organism Fransiska Malfait Department of Biomolecular Medicine	3	а		A:1	90
3 E074011	Quantitative Cell and Tissue Analysis Andre Skirtach Department of Biotechnology	6	а		A:1	180
4 E063671	Biomaterials and Tissue Engineering Peter Dubruel Department of Organic Chemistry	5			A:1	150
5 E063682	Biomechanics Charlotte Debbaut Department of Electronics and Information Systems	6			A:1	180
6 E010371	Medical Imaging Stefaan Vandenberghe Department of Electronics and Information Systems	6			A:1	180

3.3.1.3 Minor Computer Science Engineering

Subscribe to 18 credit units from the following list. Subject to approval by the faculty.

Nr Course		CRDT Ref MT1	Session	Study
1 E034140	Parallel Computer Systems Lieven Eeckhout Department of Electronics and Information Systems	6	A:1	180
2 E017930	Parallel and Distributed Software Systems Filip De Turck Department of Information Technology	6	A:1	180
3 E017920	Design of Multimedia Applications Glenn Van Wallendael Department of Electronics and Information Systems	6	A:2	180
4 E012320	Mobile and Broadband Access Networks Mario Pickavet Department of Information Technology	6	B:2	180
5 E003600	Information Theory Heidi Steendam Department of Telecommunications and Information Proces	6 ssing	B:2	180
6 E011322	Queueing Analysis and Simulation Joris Walraevens Department of Telecommunications and Information Proce	6 essing	A:1	180

3.3.1.4 Minor Electronics and ICT

Subscribe to 18 credit units from the following list. Subject to approval by the faculty.

Nr Course		CRDT Ref MT1	Session	Study
1 E02223	O Antennas and Propagation Hendrik Rogier Department of Information Technology	6	A:1	180
2 E03302	1 Electromagnetic-aware High Frequency Design Hendrik Rogier Department of Information Technology	6	A:1	180
3 E01213	O Modulation and Detection Nele Noels Department of Telecommunications and Information Processing	6 g	B:1	180
4 E00360	D Information Theory Heidi Steendam Department of Telecommunications and Information Proce	6 essing	B:2	180
5 E03125	1 Design Methodology for FPGAs Dirk Stroobandt Department of Electronics and Information Systems	6	A:1	180
6 E03364	D High-speed Electronics Johan Bauwelinck Department of Information Technology	6	A:2	180

3.3.1.5 Minor Materials Engineering

Subscribe to 18 credit units from the following list. Subject to approval by the faculty.

Nr	Course	(CRDT Ref MT1	Session	Study
1	E042740	Fracture and Deformation Behaviour of Materials Leo Kestens Department of Electromechanical, Systems and Metal Engineering	6 g	B:1	180
2	E068900	Structure and Dynamics of Polymers Karen De Clerck Department of Materials, Textiles and Chemical Engineering	6	B:1	180
3	E064961	Polymer Processing and Circularity Dagmar D'hooge Department of Materials, Textiles and Chemical Engineering	6	A:2	180
4	E065340	Micro-analysis and Structure Determination in Materials Science Roumen Petrov Department of Electromechanical, Systems and Metal Engineer	6 ering	A:1	180
5	E066662	Environmentally Assisted Degradation of Materials Kim Verbeken Department of Materials, Textiles and Chemical Engineering	6	A:2	180
6	E066020	Microstructure of Materials [nl] Marcel Sluiter Department of Electromechanical, Systems and Metal Engineering	6 ng	A:2	180
7	E064761	Textile Functionalization Karen De Clerck Department of Materials, Textiles and Chemical Engineering	6	A:2	180
8	E069041	Bio-based and Synthetic Fibres Karen De Clerck Department of Materials, Textiles and Chemical Engineering	6	A:1	180

3.3.1.6 Minor Chemical Engineering

Subscribe to 18 credit units from the following list. Subject to approval by the faculty.

Nr Course		CRDT Ref MT1	Session	Study			
1 E072110	Chemical Reactors: Fundamentals and Applications Paul Van Steenberge Department of Materials, Textiles and Chemical Engine	6 eering	B:1	180			
2 E071200	Unit Operations in Chemical Industry Geraldine Heynderickx Department of Materials, Textiles and Chemical Engi	6 neering	B:1	180			
3 E045910	Heat Engineering and Mass Transport [nl] Geraldine Heynderickx Department of Materials, Textiles and Chemical Engi	6 neering	A:1	180			
4 E073760	Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering	6	B:2	180			
5 E007920	Computer Control of Industrial Processes Clara-Mihaela Ionescu Department of Electromechanical, Systems and Meta	6 I Engineering	A:1	180			
6 E071131	Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineerin	6 Ig	A:1	180			
7 E071181	Chemistry of Industrial Processes Maarten Sabbe Department of Materials, Textiles and Chemical Engineering	6	B:2	180			
3.3.1.7 Minor Materials Physics Subscribe to 18 credit units from the following list. Subject to approval by the faculty.							
Nr Course		CRDT Ref MT1	Session	Study			
1 E024610	Solid-state Physics and Semiconductors I [nl] Henk Vrielinck Department of Solid State Sciences	6	A:1	180			
2 E024641	Physics of Semiconductor Devices Benoit Bakeroot Department of Electronics and Information Systems	6	B:2	180			

3	E065340	Micro-analysis and Structure Determination in Materials Science Roumen Petrov Department of Electromechanical, Systems and Metal Engineer	6 ring	A:1	180
4	E026221	Plasma Physics Geert Verdoolaege Department of Applied Physics	6	A:1	180
5	E029040	Physical Chemistry Iwan Moreels Department of Chemistry	6	B:2	180
6	E025010	Atomic and Molecular Physics Veronique Van Speybroeck Department of Applied Physics	6	A:1	180

3.3.1.8 Minor Control Engineering and Automation

Subscribe to 18 credit units from the following list. Subject to approval by the faculty.

Nr Course		CRDT Ref MT1	Session	Study
1 E005220	Linear Systems Gert De Cooman Department of Electronics and Information Systems	6	A:2	180
2 E004021	Nonlinear Systems Jasper De Bock Department of Electronics and Information Systems	6	B:1	180
3 E019331	ICT and Mechatronics Guillaume Crevecoeur Department of Electromechanical, Systems and	6 Metal Engineering	A:2	180
4 E008420	Servo Systems and Industrial Robots Guillaume Crevecoeur Department of Electromechanical, Systems and	3 Metal Engineering	A:1	90
5 E007920	Computer Control of Industrial Processes Clara-Mihaela Ionescu Department of Electromechanical, Systems and	6 Metal Engineering	A:1	180
6 E030520	Power Electronics Hendrik Vansompel Department of Electromechanical, Systems and Me	3 atal Engineering	A:2	90
7 E005722	Modelling and Simulation of Dynamical Systems Guillaume Crevecoeur Department of Electromechanical, Systems and	6 Metal Engineering	A:2	180

3.3.1.9 Minor Photonics Engineering

Subscribe to 18 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT Ref MT1	Session	Study
1	E030610	Photonics [nl]	6	A:2	180
		Günther Roelkens Department of Information Technology			
2	E030660	Lasers	4	A:1	120
		Geert Morthier Department of Information Technology			
3	E030761	Microphotonics	6	A:1	180
		Dries Van Thourhout Department of Information Technology			
4	E024800	Optical Materials	6	A:1	180
		Jeroen Beeckman Department of Electronics and Information Systems	-		
5	E008446	Sensors, Actuators and Electronic Microsystems	6	A:2	180
Ũ		Herbert De Smet Department of Electronics and Information Systems	·	, <u>–</u>	
6	E030721	Laboratories in Photonics Research	6	A:2	180
Ŭ	2000721	Alberto Curto Department of Information Technology	Ŭ	7.2	100
7	E031521	Physics of Semiconductor Technologies and Devices	4	A:2	120
1	E031321	Geert Van Steenberge Department of Electronics and Information Systems	4	A.Z	120

3.3.1.10 Minor Environment and Sustainable Development

Subscribe to 18 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT Ref MT1	Session	Study
1	C002275	Environmental Law [nl] Hendrik Schoukens Department of European, Public and International Law	5	A:1	125
2	1002700	Clean Technology Sophie Huysveld Department of Green Chemistry and Technology	5	A:1	150
3	E065460	Rational Use of Materials Tom Depover Department of Materials, Textiles and Chemical Engineering	5	A:1	150
4	E078752	Water and Air Quality Management Joris Thybaut Department of Materials, Textiles and Chemical Engineering	4	A:2	120
5	E039060	Sustainable Energy and Rational Use of Energy Jeroen Beeckman Department of Electronics and Information Systems	4	A:2	120
6	E078061	Introduction to Environmental Risk Assessment Karel De Schamphelaere Department of Animal Sciences and Aquatic Ecology	3 y	A:1	90

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A:1

Karel De Schamphelaere -- Department of Animal Sciences and Aquatic Ecology

3.3.2 Elective Social Courses

Subscribe to 6 credit units from the following list. Subject to approval by the faculty. The course 'Safety of Electrical and Mechanical Installations' is compulsory. Students may apply for another elective social course, given a clear motivation and after approval by the faculty (exceptionally, as a rule a course from the list below is followed).

		om the list below is followed).					
Nr 1	Course E099300	Industry Internship Engineering and Architecture [en, nl] Patrick Segers Department of Electronics and Information Systems	CRDT 6	Ref	MT1	Session A:J	Study 180
2	E098010	Integrated Portfolio [en, nl] Hiep Luong Department of Telecommunications and Information Processing	6			A:J	180
3	E098010	Integrated Portfolio [en, nl] Hiep Luong Department of Telecommunications and Information Processing	3			B:J	90
4	E037810	Safety of Electrical and Mechanical Installations [nl] Jos Knockaert Department of Electromechanical, Systems and Metal Engined	3 ering			A:2	90
5	E039060	Sustainable Energy and Rational Use of Energy Jeroen Beeckman Department of Electronics and Information Systems	4			A:2	120
6	E078310	Sustainable Use of Materials: Metals [nl] Kim Verbeken Department of Materials, Textiles and Chemical Engineering	3			A:1	90
7	E078320	Sustainable Use of Materials: Plastics and Derived Materials [nl] Lode Daelemans Department of Materials, Textiles and Chemical Engineering	3 g			A:2	90
8	E078010	Technology and Environment Luc Martens Department of Information Technology	3			A:1	90
9	E078752	Water and Air Quality Management Joris Thybaut Department of Materials, Textiles and Chemical Engineering	4			A:2	120
10	E092100	Biosystems [nl] Pascal Verdonck Department of Electronics and Information Systems	3			A:1	90
11	E075310	Ethics, Engineering and Society [nl] Seppe Segers Department of Philosophy and Moral Sciences	3			A:2	90
12	C004009	History and Philosophy of Sciences [nl] Maarten Van Dyck Department of Philosophy and Moral Sciences	3			A:1	90
13	E076320	The Information Society and ICT [nl] Erik Mannens Department of Electronics and Information Systems	3			A:2	90
14	A001900	Introduction to Psychology [nl] Wim Notebaert Department of Experimental Psychology	3			A:1	90
15	H001977	Coaching and Diversity [nl] Elisabeth De Schauwer Department of Special Education	3	UKV		A:J	90
16	A005503	Context and Nuance. A Critical Reflection on Current Topics [nl] Stef Craps Department of Literary Studies	6	UKV		A:1	180
17	E076450	Basic Entrepreneurship [nl]	3	UKV		A:1	90
		Introduction to Corporate Law [nl] Diederik Bruloot Department of Interdisciplinary Study of Law, Private Law an	3		I	A:1	90
19	E076460	Dare to Venture Johan Verrue Department of Marketing, Innovation and Organisation	4			A:2	120
20	E076471	Dare to Start Frank Gielen Department of Information Technology	3			A:2	90
21	E076621	Principles of Law and Construction Law [nl] Jelle Laverge Department of Architecture and Urban Planning	3			A:1	90
22	E076951	Engineering Economy Sofie Verbrugge Department of Information Technology	6			A:1	180
23	E076431		3			A:1	90
24	H002169	Powerful Learning Environments [nl] Bram De Wever Department of Educational Studies	6			A:1	180
25	H002196	Classroom Management and Reflection [nl] Melissa Tuytens Department of Educational Studies	4			A:2	120
26	H002197	The Teacher within School and Society [nl] Melissa Tuytens Department of Educational Studies	4			A:1	120
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27 H002198	Psychology of Adolescence [nl] Wim Beyers Department of Developmental, Personality and Social Psycholog	4 y			A:1	120
28 F000083	Macroeconomics [nl] Freddy Heylen Department of Economics	6			A:1	180
29 H001010	Introduction Industrial Psychology [nl] Bart Wille Department of Developmental, Personality and Social Psychology	5			A:2	150
30 F000551	Business Skills Mieke Audenaert Department of Marketing, Innovation and Organisation	4			C:2	120
31 A003001	Academic English Geert Jacobs Department of Linguistics	3	UKV		B:1, A:2	90
32 E075800	Communication [nl] Leen Pollefliet Department of Information Technology	3			A:1	90
4 Master's	s Dissertation				24 c	redits
Nr Course 1 E091103	Master's Dissertation	CRDT 24	Ref	MT1 2	Session B:J	Study 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
cs: Czech	el: Greek
da: Danish	en: English

ja: Japanese nl: Dutch no: Norwegian

es: Spanish

fr: French

it: Italian

pl: Polish pt: Portuguese ru: Russian sh: Kroatian/Serbian zh: Chinese sl: Slovene 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