

Study Programme

Academic year 2026-2027

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 Engineering	6	1	B:1	180
2	E037321	Turbomachines	6	1		180
3	E037121	Displacement Pumps, Compressors and IC Engine Fundamentals	6	1		180
4	E040670	Mechanical Vibrations	6	1		180
5	E019331	ICT and Mechatronics Guillaume Crevecoeur Department of Electromechanical, Systems and Metal Engineering	6	2	A:2	180
6	E076221	Manufacturing Planning and Control Birger Raa Department of Industrial Systems Engineering and Product Design	6	2	A:1	180
2	Courses	Related to the Main Subject			36 (credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	E045240	Computational Fluid Dynamics Joris Degroote Department of Electromechanical, Systems and Metal Engineering	6	1	A:2	180
2	E028700	Thermal Installations	6	1		180
3	E043070	Materials Selection in Mechanical Design	6	1		180
4	E032322	Sensor Based Measurement Systems	3	1		90
5	E037221	IC Engines: advanced design and research Sebastian Verhelst Department of Electromechanical, Systems and Metal Engineering	3	1	A:2	90
6	E039211	Heating, Ventilation, Air-conditioning and Refrigeration Steven Lecompte Department of Electromechanical, Systems and Metal Engineering	3	2	A:1	90
7	E037621	Gas Turbines Ward De Paepe Department of Electromechanical, Systems and Metal Engineering	3	2	A:1	90
8	E035421	Sustainable Energy Jan Mertens Department of Electromechanical, Systems and Metal Engineering	3	2		90
9	E040560	Fluid Mechanics Joris Degroote Department of Electromechanical, Systems and Metal Engineering	3	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).

N	Course		CRDT	Ref	MT1	Session	Study
1	E099300	Industry Internship Engineering and Architecture [en, nl]	6			A:J	180
		Patrick Segers Department of Electronics and Information Systems					

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 Engineering	3		A:2	90
5	E039060	Sustainable Energy and Rational Use of Energy Filip Strubbe 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	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 Maarten Van Dyck Department of Philosophy and Moral Sciences	3			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] July De Wilde Department of Translation, Interpreting and Communication	6	UKV	A:1	180
17	E076450	Basic Entrepreneurship	3	UKV		90
18	A005646	Introduction to Business Law [nl] Diederik Bruloot Department of Interdisciplinary Study of Law, Private Law and Business Law	3		A:1	90
19	E076460	Dare to Venture	4			120
20	E076471	Dare to Start Wouter Haerick 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	3			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] Tijs Rotsaert 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
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		C:1	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

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 Engineering	3	A:2	90
2 E045930	Modelling of Turbulence and Combustion Bart Merci Department of Structural Engineering and Building Materials	3	A:1	90
3 E061960	Aeroplanes Benoît Marinus Department of Electromechanical, Systems and Metal Engineering	3	A:2	90
4 E038320	Nuclear Reactor Technology Matthias Vanderhaegen Department of Electromechanical, Systems and Metal Engineering	6	A:2ª	180
5 E038030	Nuclear Reactor Theory: part 2 Matthias Vanderhaegen Department of Electromechanical, Systems and Metal Engineering	3	A:1	90
6 E028330	Thermal-hydraulics and Safety Analysis of Nuclear Systems Greet Maenhout Department of Electromechanical, Systems and Metal Engineering	6	(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 Engineering	3	A:1	90
9 E004160	Numerical Optimisation	3		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 Materials	3	A:1	90
13 E051540	Explosions and Industrial Fire Safety Filip Verplaetsen Department of Structural Engineering and Building Materials	6	A:1	180
14 B001375	Energy Law [nl] Frederik Vandendriessche Department of European, Public and International Law	4	A:2	120
15 E053642	Railway Technology Fundamentals Hendrik Bonne Department of Electromechanical, Systems and Metal Engineering	3	A:2	90
16 E053643	Advanced Railway Technology Hendrik Bonne Department of Electromechanical, Systems and Metal Engineering	3	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.

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Nr	Course		CRDT	Ref	MT1	Session	Study
1	E076221	Manufacturing Planning and Control Birger Raa Department of Industrial Systems Engineering and Product Design	6	а		A:1	180
2	E004255	Operations Research Models and Methods El-Houssaine Aghezzaf Department of Industrial Systems Engineering and Product Design	6			A:1	180
3	E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product Design	6			A:2	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	5				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 Filip Strubbe 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

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	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 An Hendrix Department of Human Structure and Repair	6	а	A:1	180
4	E063671	Biomaterials and Tissue Engineering Ruslan Dmitriev Department of Human Structure and Repair	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			CRDT		Session	Study
1	E076221	Manufacturing Planning and Control Birger Raa Department of Industrial Systems Engineering and Product Design	6	а	A:1	180
2	E076380	Methods Engineering and Work Measurement Dieter Claeys Department of Industrial Systems Engineering and Product Design	6	а	A:2	180
3	E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product Design	6	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 Leo Kestens Department of Electromechanical, Systems and Metal Engineering	6	b	A:2	180
6	E900069	Composites Wim Van Paepegem Department of Materials, Textiles and Chemical Engineering	6	b	A:1	180
7	E043070	Materials Selection in Mechanical Design	6	b		180
8	E061322	Machine Design Dieter Fauconnier Department of Electromechanical, Systems and Metal Engineering	6	С	A:1	180
9	E037121	Displacement Pumps, Compressors and IC Engine Fundamentals	6	С		180
10	E037221	IC Engines: advanced design and research Sebastian Verhelst Department of Electromechanical, Systems and Metal Engineering	3	С	A:2	90
11	E061621	Automotive Technology Sebastian Verhelst Department of Electromechanical, Systems and Metal Engineering	3	С	A:2	90
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40	F007000		•				100
	E007920 E008420	•	6 3	c c		A:1	180 90
10	L000420	Frederik Ostyn Department of Electromechanical, Systems and Metal Engineering	3	C		Α.1	30
14	E030520	Power Electronics Hendrik Vansompel Department of Electromechanical, Systems and Metal Engineering	3	С		A:2	90
3.3	3 Elective	e Courses: Path 3					
Sul	bscribe to 24	credit units from 2 modules from the following list. Subject to approval by t	he faculty.				
3.3	3.1 Electiv	ve Courses: Minors					
		credit units from 1 minor from the following list. Subject to approval by the Operations Management	faculty.				
	bscribe to 18 Course	credit units from the following list, with 6 credit units with reference a. Subj			e faculty.	Session	Study
1	E076221	Manufacturing Planning and Control Birger Raa Department of Industrial Systems Engineering and Product Design	6	а		A:1	180
2	E004255	Operations Research Models and Methods El-Houssaine Aghezzaf Department of Industrial Systems Engineering and Product Design	6			A:1	180
3	E060240	Quality Engineering and Industrial Statistics Stijn De Vuyst Department of Industrial Systems Engineering and Product Design	6			A:2	180
4	E076951	Engineering Economy Sofie Verbrugge Department of Information Technology	6			A:1	180
3.3	3.1.2 Minor	Biosystems					
		credit units from the following list, with no less than 8 credit units with refer					Church
1	Course E092623	Modelling of Physiological Systems	CRDT 5	Ref a	MT1	Session A:2	Study 150
		Patrick Segers Department of Electronics and Information Systems					
2	E092662	From Genome to Organism Fransiska Malfait Department of Biomolecular Medicine	3	а		A:1	90
3	E074011	Quantitative Cell and Tissue Analysis An Hendrix Department of Human Structure and Repair	6	а		A:1	180
4	E063671	Biomaterials and Tissue Engineering Ruslan Dmitriev Department of Human Structure and Repair	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	3.1.3 Minor	Computer Science Engineering					
	bscribe to 18 Course	credit units from the following list. Subject to approval by the faculty.	CRDT	Ref	MT1	Session	Studv
1	E034140	Parallel Computer Systems Lieven Eeckhout Department of Electronics and Information Systems	6	1101		A:1	180
2	E017930	Parallel and Distributed Software Systems Jan Fostier 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 Ingrid Moerman Department of Information Technology	6			B:2	180
5	E003600	Information Theory Heidi Steendam Department of Telecommunications and Information Processing	6			B:2	180
6	E011322	Queueing Analysis and Simulation Joris Walraevens Department of Telecommunications and Information Processing	6			A:1	180
3.3	3.1.4 Minor	Electronics and ICT					
		credit units from the following list. Subject to approval by the faculty.	CDDT	Dof-	N/T-1	Sagion	Ctude
IVI	Course	Antonnog and Drangation	CRDT	Kel	MT1	Session	Study

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E022230 Antennas and Propagation

Hendrik Rogier -- Department of Information Technology

A:1

180

2	E033021	Electromagnetic-aware High Frequency Design Hendrik Rogier Department of Information Technology	6	A:1	180
3	E012130	Modulation and Detection Nele Noels Department of Telecommunications and Information Processing	6	B:1	180
4	E003600	Information Theory Heidi Steendam Department of Telecommunications and Information Processing	6	B:2	180
5	E031251		6	A:1	180
6	E033640	High-speed Electronics Johan Bauwelinck Department of Information Technology	6	A:2	180
3.3	3.1.5 Minoi	Materials Engineering			
	bscribe to 18 Course	3 credit units from the following list. Subject to approval by the faculty.	CRDT Ref M	1T1 Session	Study
1	E042740	Fracture and Deformation Behaviour of Materials Leo Kestens Department of Electromechanical, Systems and Metal Engineering	6	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 Hossein Beladi Department of Electromechanical, Systems and Metal Engineering	6	A:2	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	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	3.1.6 Minoi	Chemical Engineering			
Su	bscribe to 18	B credit units from the following list. Subject to approval by the faculty.			
	Course		CRDT Ref M	1T1 Session	Study
1		Chemical Reactors: Fundamentals and Applications Paul Van Steenberge Department of Materials, Textiles and Chemical Engineering	6		180
2		Unit Operations in Chemical Industry	6	B:1	
3		Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering			180
	E045910	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering	6		180 180
4		Heat Engineering and Mass Transport	6	B:2	
4 5	E073760	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design		B:2	180
	E073760 E007920	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering	6	B:2 A:1	180 180
5 6 7	E073760 E007920 E071131 E071181	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering Computer Control of Industrial Processes Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineering Chemistry of Industrial Processes	6		180 180 180
5 6 7	E073760 E007920 E071131 E071181	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering Computer Control of Industrial Processes Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineering	6 6 6	A:1	180 180 180 180
5 6 7 3.3 Su	E073760 E007920 E071131 E071181 3.1.7 Minor	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering Computer Control of Industrial Processes Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineering Chemistry of Industrial Processes	6 6 6	A:1 B:2	180 180 180 180 180
5 6 7 3.3 Su	E073760 E007920 E071131 E071181 3.1.7 Minor	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering Computer Control of Industrial Processes Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineering Chemistry of Industrial Processes Materials Physics 3 credit units from the following list. Subject to approval by the faculty. Solid-state Physics and Semiconductors I [nI]	6 6 6	A:1	180 180 180 180
5 6 7 3.3 Su	E073760 E007920 E071131 E071181 3.1.7 Minor bace to 18 Course	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering Computer Control of Industrial Processes Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineering Chemistry of Industrial Processes Materials Physics 3 credit units from the following list. Subject to approval by the faculty.	6 6 6 CRDT Ref M	A:1 B:2 IT1 Session	180 180 180 180 180
5 6 7 3.3 Su Nr 1	E073760 E007920 E071131 E071181 3.1.7 Minor obscribe to 18 Course E024610	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering Computer Control of Industrial Processes Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineering Chemistry of Industrial Processes Materials Physics Gredit units from the following list. Subject to approval by the faculty. Solid-state Physics and Semiconductors I [nl] Henk Vrielinck Department of Solid State Sciences Physics of Semiconductor Devices Benoit Bakeroot Department of Electronics and Information Systems	6 6 6 6 CRDT Ref M	A:1 B:2 IT1 Session A:1	180 180 180 180 180 Study 180
5 6 7 3.3 Su Nr 1	E073760 E007920 E071131 E071181 3.1.7 Minor bscribe to 18 Course E024610 E024641	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering Computer Control of Industrial Processes Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineering Chemistry of Industrial Processes Materials Physics Gredit units from the following list. Subject to approval by the faculty. Solid-state Physics and Semiconductors I [nl] Henk Vrielinck Department of Solid State Sciences Physics of Semiconductor Devices Benoit Bakeroot Department of Electronics and Information Systems Micro-analysis and Structure Determination in Materials Science Hossein Beladi Department of Electromechanical, Systems and Metal Engineering	6 6 6 6 CRDT Ref M 6	A:1 B:2 IT1 Session A:1 B:2	180 180 180 180 180 Study 180
5 6 7 3.3 Su NT 1 2 3	E073760 E007920 E071131 E071181 3.1.7 Minor bacribe to 18 Course E024610 E024641 E065340	Heat Engineering and Mass Transport Geraldine Heynderickx Department of Materials, Textiles and Chemical Engineering Chemical Process Design Georgios Bellos Department of Materials, Textiles and Chemical Engineering Computer Control of Industrial Processes Sustainable Chemical Production Processes Kevin Van Geem Department of Materials, Textiles and Chemical Engineering Chemistry of Industrial Processes Materials Physics Gredit units from the following list. Subject to approval by the faculty. Solid-state Physics and Semiconductors I [nl] Henk Vrielinck Department of Solid State Sciences Physics of Semiconductor Devices Benoit Bakeroot Department of Electronics and Information Systems Micro-analysis and Structure Determination in Materials Science Hossein Beladi Department of Electromechanical, Systems and Metal Engineering Plasma Physics Geert Verdoolaege Department of Applied Physics	6 6 6 6 CRDT Ref M 6 6	A:1 B:2 TT1 Session A:1 B:2 A:2	180 180 180 180 180 Study 180 180

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	5		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 Filip Strubbe 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

3.3.2 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).

Nr Course	CRDT	Ref	MT1	Session	Study

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 Engineering	3		A:2	90
5	E039060	Sustainable Energy and Rational Use of Energy Filip Strubbe 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	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 Maarten Van Dyck Department of Philosophy and Moral Sciences	3			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] July De Wilde Department of Translation, Interpreting and Communication	6	UKV	A:1	180
17	E076450	Basic Entrepreneurship	3	UKV		90
18	A005646	Introduction to Business Law [nl] Diederik Bruloot Department of Interdisciplinary Study of Law, Private Law and Business Law	3		A:1	90
19	E076460	Dare to Venture	4			120
20	E076471	Dare to Start Wouter Haerick 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	3			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] Tijs Rotsaert 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
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		C:1	150
30	F000551	Business Skills Mieke Audenaert Department of Marketing, Innovation and Organisation	4		C:2	120

31 A003001 Academic English UKV B:1, A:2 90 Geert Jacobs -- Department of Linguistics 32 E075800 Communication [nl] 3 A:1 90

Leen Pollefliet Department of Information Technology				
4 Master's Dissertation		24 credits		
Nr Course	CRDT R	ef 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 es: Spanish sh: Kroatian/Serbian de: German ja: Japanese pl: Polish zh: Chinese pt: Portuguese cs: Czech el: Greek fr: French nl: Dutch 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 2027-2028

f: annually, from 2028-2029 g: bi-annually, from 2028-2029

i: annually, from 2029-2030

d: bi-annually, from 2027-2028 b: tri-annually e: tri-annually, from 2027-2028

h: tri-annually, from 2028-2029

j: bi-annually, from 2029-2030 k: tri-annually, from 2029-2030

20-12-2025 20:33

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