

Faculty of Engineering and Architecture

Master of Science in Civil Engineering

Language of instruction: Dutch

Programme version 15

1 General Courses

89 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E045621 Groundwater and Contaminant Flow <i>Herman Peiffer -- Department of Civil Engineering</i>	4		1	A:1	120
2	E044311 Structural Stability <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	6		1	B:1	180
3	E052621 Concrete Structures: Prestressed Concrete and Slabs <i>Roman Wan-Wendner -- Department of Structural Engineering and Building Materials</i>	6		1	C:2	180
4	E040661 Structural Dynamics <i>Mia Loccufer -- Department of Electromechanical, Systems and Metal Engineering</i>	5		1	A:1	150
5	E054820 Inland Waterways and Locks <i>Tom De Mulder -- Department of Civil Engineering</i>	6		1	A:2	180
6	E052210 Geotechnics <i>Mahya Roustaei -- Department of Civil Engineering</i>	5		1	A:2	150
7	E053560 Specialised Road Engineering and Mobility <i>Pieter De Winne -- Department of Civil Engineering</i>	5		1	A:2	150
8	E044940 FEM and Constitutive Material Laws in Structural Engineering <i>Diego Lorenzo Allaix -- Department of Structural Engineering and Building Materials</i>	3		1	A:1	90
9	E045860 Water Management and Environment <i>Tom De Mulder -- Department of Civil Engineering</i>	5		1	A:1	150
10	E054920 Coastal Engineering and Harbour Construction <i>Peter Troch -- Department of Civil Engineering</i>	6		1	A:1	180
11	E050923 Structural Reliability and Risk Analysis <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	4		1	B:2	120
12	E065480 Life Cycle Assessment of Materials and Structures <i>Nele De Belie -- Department of Structural Engineering and Building Materials</i>	3		1	B:2	90
13	E076820 Project Management <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	6		2	C:2	180
14	E052630 Prefabricated Concrete Constructions <i>Stijn Matthys -- Department of Structural Engineering and Building Materials</i>	3		2	B:1	90
15	E055044 Introduction to Maritime Technology (partim) <i>Evert Lataire -- Department of Civil Engineering</i>	4		2	B:1	120
16	E005741 Simulation of Stochastic Systems <i>Stijn De Vuyst -- Department of Industrial Systems Engineering and Product Design</i>	6		2	B:1	180
17	E050100 Design of Civil Structures <i>Bart De Pauw -- Department of Civil Engineering</i>	3		2	A:2	90
18	E053620 Railroads <i>Jan Mys -- Department of Civil Engineering</i>	3		2	A:2	90
19	E044821 Advanced Bridge and Tunnel Engineering <i>Hans De Backer -- Department of Civil Engineering</i>	6		2	B:1	180

2 Elective Courses

7 credits

Subscribe to 7 credit units from the following list. Subject to approval by the faculty.

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] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	6			A:J	180
2	E037810 Safety of Electrical and Mechanical Installations <i>Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering</i>	3			A:2	90
3	E039060 Sustainable Energy and Rational Use of Energy [en] <i>Jeroen Beeckman -- Department of Electronics and Information Systems</i>	4			A:2	120
4	K001339 Sustainability Thinking <i>Thomas Block -- Department of Political Sciences</i>	5	UKV		A:J	150
5	E078310 Sustainable Use of Materials: Metals <i>Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering</i>	3			A:1	90
6	E078320 Sustainable Use of Materials: Plastics and Derived Materials <i>Lode Daelemans -- Department of Materials, Textiles and Chemical Engineering</i>	3			A:2	90
7	E078010 Technology and Environment [en] <i>Luc Martens -- Department of Information Technology</i>	3			A:1	90
8	E078751 Water and Air Quality Engineering [en] <i>Joris Thybaut -- Department of Materials, Textiles and Chemical Engineering</i>	4			A:2	120
9	E092100 Biosystems <i>Pascal Verdonck -- Department of Electronics and Information Systems</i>	3			A:1	90
10	E075310 Ethics, Engineering and Society <i>Guido Pennings -- Department of Philosophy and Moral Sciences</i>	3			A:2	90
11	E075060 Philosophy and Science <i>Maarten Van Dyck -- Department of Philosophy and Moral Sciences</i>	3			A:1	90
12	E076320 The Information Society and ICT [en] <i>Erik Mannens -- Department of Electronics and Information Systems</i>	3			A:1	90
13	A001900 Introduction to Psychology <i>Wim Notebaert -- Department of Experimental Psychology</i>	3			A:1	90
14	H001977 Coaching and Diversity <i>Elisabeth De Schauwer -- Department of Special Education</i>	3	UKV		A:J	90
15	A005503 Context and Nuance. A Critical Reflection on Current Topics <i>Benjamin Biebuyck -- Department of Literary Studies</i>	6	UKV		A:1	180
16	E076450 Basic Entrepreneurship <i>Yannick Dillen -- Department of Marketing, Innovation and Organisation</i>	3	UKV		A:1	90
17	E076431 Introduction to Entrepreneurship [en] <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i>	3			A:1	90
18	E076460 Dare to Venture [en] <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i>	4			A:2	120
19	E076471 Dare to Start [en] <i>Frank Gielen -- Department of Information Technology</i>	3			A:2	90
20	E076621 Principles of Law and Construction Law <i>Jelle Laverge -- Department of Architecture and Urban Planning</i>	3			A:1	90
21	E076520 Commercial Law <i>Diederik Bruloot -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i>	3			A:1	90
22	E076930 Financial and Cost Price Reporting in Companies <i>Faculteit Economie en Bedrijfskunde, Sophie Maussen -- Department of Accounting, Corporate Finance and Taxation</i>	6			A:1	180
23	H002169 Powerful Learning Environments <i>Bram De Wever -- Department of Educational Studies</i>	6			A:1	180
24	H002196 Classroom Management and Reflection <i>Melissa Tuytens -- Department of Educational Studies</i>	4			A:2	120
25	H002197 The Teacher within School and Society <i>Melissa Tuytens -- Department of Educational Studies</i>	4			A:1	120
26	H002198 Psychology of Adolescence <i>Wim Beyers -- Department of Developmental, Personality and Social Psychology</i>	4			A:1	120
27	F000083 Macroeconomics <i>Freddy Heylen -- Department of Economics</i>	6			A:1	180

28	H001010	Introduction Industrial Psychology <i>Bart Wille -- Department of Developmental, Personality and Social Psychology</i>	5		A:2	150
29	F000551	Business Skills [en] <i>Mieke Audenaert -- Department of Marketing, Innovation and Organisation</i>	4		C:2	120
30	A003001	Academic English [en] <i>Geert Jacobs -- Department of Linguistics</i>	3	UKV	B:1, A:2	90
31	E075800	Communication <i>Leen Pollefliet -- Department of Information Technology</i>	3		A:1	90

3 Master's Dissertation 24 credits

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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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 is 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 2023-2024	f: annually, from 2024-2025	i: annually, from 2025-2026
b: tri-annually	d: bi-annually, from 2023-2024	g: bi-annually, from 2024-2025	j: bi-annually, from 2025-2026
	e: tri-annually, from 2023-2024	h: tri-annually, from 2024-2025	k: tri-annually, from 2025-2026