Study Programme

Academic year 2026-2027

Faculty of Engineering and Architecture

Master of Science in Engineering: Architecture -- Architectural Design and Construction Techniques

Language of instruction: Dutch

Programme version 18

1 General Courses — 22 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E046171	Soil Mechanics	4		1		120
2	E052413	Reinforced and Prestressed Concrete [en]	6		1	A:1	180
		Roman Wan-Wendner -- Department of Structural Engineering and Building Materials					
3	E076621	Principles of Law and Construction Law	3		2	A:1	90
		Jelle Laverge -- Department of Architecture and Urban Planning					
4	E050942	Fire Protection of Buildings	4		2		120
		Bart Merci -- Department of Structural Engineering and Building Materials					
5	E083940	Professional Practice: Deontology for the Architect Engineer	5		2	A:2	150
		Jan Moens -- Department of Architecture and Urban Planning					

2 Courses Related to the Main Subject — 37 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E051180	Building Acoustics and Lighting [en]	4		1	A:1	120
		Marcelo Blasco Enbrie -- Department of Architecture and Urban Planning					
2	E052730	Building Chemistry	3		1		90
3	E044700	Metal Constructions	3		1	A:2	90
		Kim Van Tittelboom -- Department of Structural Engineering and Building Materials					
4	E051162	Sustainable Energy Concepts for Buildings	4		1		120
		Wim Boydens -- Department of Architecture and Urban Planning					
5	E080070	History of Contemporary Construction: Capita Selecta	4		1		120
		Lionel Devlieger -- Department of Architecture and Urban Planning					
6	E081603	Architectural Design Studio: Design Development	10		1		300
7	E050730	Design and Techniques for Renovation of Buildings	6		2		180
8	E052271	Foundation Engineering [en]	3		2	A:1	90
		Herman Peiffer -- Department of Civil Engineering					

3 Elective Courses — 37 credits

Subscribe to 37 credit units from no less than 2 and no more than 3 modules from the following list. Subject to approval by the faculty.
Distributed over the first standard learning path as follows:
• 22 credit units in year 1,
• 15 credit units in year 2.

3.1 Research Related Elective Courses

Subscribe to no less than 22 credit units from the following list, distributed over the first standard learning path as follows:
• no less than 16 credit units in year 1,
• no less than 6 credit units in year 2.
Subject to approval by the faculty.
Subscribe to at least one Master's studio.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E081760	Masterstudio A	10				300
2	E081770	Masterstudio B	10				300

Nr		Course	CRDT	Ref	MT1	Session	Study
3	E081780	Masterstudio C	10				300
4	E081790	Masterstudio D	10				300
5	E081795	Masterstudio E	10				300
6	E085092	Studio on Spatial Analysis and Projects *Peter Vanden Abeele -- Department of Architecture and Urban Planning*	12			A:2	360
7	E087000	Advanced Topics in Architecture 1	3				90
8	E087010	Advanced Topics in Architecture 2	3				90
9	E087100	Advanced Topics in Architecture 3	6				180
10	E087110	Advanced Topics in Architecture 4	6				180
11	E087200	Advanced Topics in Building Physics and Building Techniques 1	3				90
12	E087210	Advanced Topics in Building Physics and Building Techniques 2	3				90
13	E087300	Advanced Topics in Design, Methodology and Means of Architectural Design 1	3				90
14	E087310	Advanced Topics in Design, Methodology and Means of Architectural Design 2	3				90
15	E087400	Advanced Topics in Urbanism, Urban Design and Landscape 1 [en, nl] *Michiel Dehaene -- Department of Architecture and Urban Planning*	3			A:1[a], B:2[a]	90
16	E087410	Advanced Topics in Urbanism, Urban Design and Landscape 2 [en, nl] *Michiel Dehaene -- Department of Architecture and Urban Planning*	3			(A:1)[d], (B:2)[d]	90
17	E087500	Advanced Topics in Architectural Theory, History and Criticism 1	3				90
18	E087510	Advanced Topics in Architectural Theory, History and Criticism 2	3				90

3.2 Broadening and Specialist Elective Courses

Subscribe to no more than 15 credit units from the following list. Subject to approval by the faculty.

Nr		Course	CRDT	Ref	MT1	Session	Study
1	E084520	Theory of Urban Design	3				90
2	E084212	Theory of Urbanism [en] *Anne Kockelkorn -- Department of Architecture and Urban Planning*	6			A:1	180
3	E080011	History and Theory of non-European Urbanism and Architecture [en] *Johan Lagae -- Department of Architecture and Urban Planning*	6			A:2	180
4	E086611	Mobility, Spatial Planning and Urban Design of Infrastructure *Filip Boelaert -- Department of Civil Engineering*	3			A:1	90
5	E085740	Instruments for Spatial Policy *Ann Pisman -- Department of Civil Engineering*	3			A:1	90
6	E084571	Urban Analysis and Design [en] *Michiel Dehaene -- Department of Architecture and Urban Planning*	6			A:1	180
7	E084953	Urban Sound [en] *Dick Botteldooren -- Department of Information Technology*	3			A:1	90
8	E000810	Topography *Alain De Wulf -- Department of Geography*	3			A:1	90
9	E053510	Geometric Aspects of Roads *Hans De Backer -- Department of Civil Engineering*	3			A:2	90
10	E044120	Structural Analysis I *Robby Caspeele -- Department of Structural Engineering and Building Materials*	3			B:2	90
11	E044220	Structural Analysis II *Kim Van Tittelboom -- Department of Structural Engineering and Building Materials*	6			A:1	180
12	E084760	Geographic Information Systems (partim) *Nico Van de Weghe -- Department of Geography*	3			A:1	90
13	E052621	Concrete Structures: Prestressed Concrete and Slabs [en] *Roman Wan-Wendner -- Department of Structural Engineering and Building Materials*	6			A:2	180
14	E052630	Prefabricated Concrete Constructions [en] *Stijn Matthys -- Department of Structural Engineering and Building Materials*	3			A:1	90
15	E050720	Diagnosis and Repair of Buildings [en] *Stijn Matthys -- Department of Structural Engineering and Building Materials*	3			A:1	90
16	E050340	Building Performance Simulation	3				90

17	E050923	Structural Reliability and Risk Analysis [en]	4	A:2	120
		Robby Caspeele -- Department of Structural Engineering and Building Materials			
18	E061502	Spatial Structures [en]	6	A:1	180
		Jan Belis -- Department of Structural Engineering and Building Materials			
19	E044631	Glass and Facade Structures [en]	3	A:2	90
		Jan Belis -- Department of Structural Engineering and Building Materials			
20	E044230	Structural Analysis of Geotechnical Structures	3	A:2	90
		Raphaël Steenbergen -- Department of Structural Engineering and Building Materials			
21	E065480	Life Cycle Assessment of Materials and Structures [en]	3	A:2	90
		Nele De Belie -- Department of Structural Engineering and Building Materials			
22	I002706	Wood Technology: Wood Processing and Forest Products [en]	5	A:2	150
		Joris Van Acker -- Department of Environment			
23	E900069	Composites [en]	6	A:1	180
		Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering			
24	E039060	Sustainable Energy and Rational Use of Energy [en]	4	A:2	120
		Filip Strubbe -- Department of Electronics and Information Systems			
25	C003532	Urbanization in Global Perspective [en]	3	B:2	90
		Ben Derudder -- Department of Geography			
26	E037820	Technology of Electrical Installations [en]	3	A:2	90
		Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering			
27	E078010	Technology and Environment [en]	3	A:1	90
		Luc Martens -- Department of Information Technology			
28	E084970	Integrated Approach to Water Management and Environmental Policy	3	A:2	90
		Renaat De Sutter -- Department of Civil Engineering			
29	E084581	Sustainable Cities	6	A:J	180
		Thomas Block -- Department of Political Sciences			
30	E711047	Sustainable Building	3		90
31	E078320	Sustainable Use of Materials: Plastics and Derived Materials	3	A:2	90
		Lode Daelemans -- Department of Materials, Textiles and Chemical Engineering			
32	E078310	Sustainable Use of Materials: Metals	3	A:1	90
		Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering			
33	E099160	Project Management in Construction [en]	3	A:2	90
		Mario Vanhoucke -- Department of Business Informatics and Operations Management			
34	E076431	Introduction to Entrepreneurship	3		90
35	A005646	Introduction to Business Law	3	A:1	90
		Diederik Bruloot -- Department of Interdisciplinary Study of Law, Private Law and Business Law			
36	E076460	Dare to Venture	4		120
37	E076471	Dare to Start [en]	3	A:2	90
		Wouter Haerick -- Department of Information Technology			
38	C003624	Population and Urban Geography	5	A:1	150
		Maite Dewinter -- Department of Geography			
39	A002717	Cultural Anthropology	5	A:2	150
		Koenraad Stroeken -- Department of Languages and Cultures			
40	A000677	Introduction to Anthropology	3	A:2	90
		Hugo DeBlock -- Department of Languages and Cultures			
41	K000459	Sociology	6	A:1	180
		Bart Van de Putte -- Department of Sociology			
42	K000983	Historical Sociology	5	A:2	150
		Bart Van de Putte -- Department of Sociology			
43	A005583	Art Policy and Museum Studies [en]	5	A:2	150
44	A001974	Aesthetics I	5	A:2	150
		Bart Vandenabeele -- Department of Philosophy and Moral Sciences			
45	A001492	Aesthetics II	5	A:1	150
		Bart Vandenabeele -- Department of Philosophy and Moral Sciences			
46	A005661	Contemporary Art: Ways of Worldmaking	5	(A:1)[d]	150
		Wouter Davidts -- Department of Art, Music and Theatre Sciences			

Nr	Course		CRDT	Ref	MT1	Session	Study
47	A005288	Avant-garde Film and Video	5			A:1ª	150
		Steven Jacobs -- Department of Art, Music and Theatre Sciences					
48	A000418	Film History and Aesthetics	5			B:1	150
		Daniël Biltereyst -- Department of Communication Sciences					
49	A005635	Introduction to Heritage	5			A:2	150
		Anna Tummers -- Department of Art, Music and Theatre Sciences					
50	A005635	Introduction to Heritage	3			B:2	90
		Anna Tummers -- Department of Art, Music and Theatre Sciences					
51	E084533	Contextualizing Contemporary Belgian Architecture	6				180
		Maarten Liefooghe -- Department of Architecture and Urban Planning					
52	E080830	Information Management in Architecture and Construction [nl, en]	3			A:2	90
		Paulus Present -- Department of Architecture and Urban Planning					
53	E080823	Digital Design 3: Advanced Modeling Techniques	3			A:2	90
		Ruben Verstraeten -- Department of Architecture and Urban Planning					
54	A001900	Introduction to Psychology	3			A:1	90
		Wim Notebaert -- Department of Experimental Psychology					
55	E099300	Industry Internship Engineering and Architecture [en, nl]	6			A:J	180
		Patrick Segers -- Department of Electronics and Information Systems					
56	E099400	Research Internship [en]	6			A:J	180
		Patrick Segers -- Department of Electronics and Information Systems					
57	E099400	Research Internship [en]	3			B:J	90
		Patrick Segers -- Department of Electronics and Information Systems					
58	E098010	Integrated Portfolio [en, nl]	6			A:J	180
		Hiep Luong -- Department of Telecommunications and Information Processing					
59	E098010	Integrated Portfolio [en, nl]	3			B:J	90
		Hiep Luong -- Department of Telecommunications and Information Processing					

3.3 Elective Courses Ghent University

Subscribe to no more than 6 credit units from the study programmes of Ghent University. Subject to approval by the faculty.
Only courses that are intrinsicly relevant to the Master of Science in Engineering: Architecture, to be motivated by the student, or the
Ghent University Elective Courses.

4 Master's Dissertation   24 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E091107	Master's Dissertation	24			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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030