

Faculty of Engineering and Architecture

Master of Science in Engineering: Architecture -- Urban Design and Architecture

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] <i>Roman Wan-Wendner -- Department of Structural Engineering and Building Materials</i>	6		1	A:1	180
3	E076621 Principles of Law and Construction Law <i>Jelle Laverge -- Department of Architecture and Urban Planning</i>	3		2	A:1	90
4	E050942 Fire Protection of Buildings <i>Bart Merci -- Department of Structural Engineering and Building Materials</i>	4		2		120
5	E083940 Professional Practice: Deontology for the Architect Engineer <i>Jan Moens -- Department of Architecture and Urban Planning</i>	5		2	A:2	150

## 2 Courses Related to the Main Subject 37 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E084520 Theory of Urban Design	3		1		90
2	E084212 Theory of Urbanism [en] <i>Anne Kockelkorn -- Department of Architecture and Urban Planning</i>	6		1	A:1	180
3	E086611 Mobility, Spatial Planning and Urban Design of Infrastructure <i>Filip Boelaert -- Department of Civil Engineering</i>	3		1	A:1	90
4	E085095 Workshop on Spatial Analysis and Urban Design	10		1		300
5	E080011 History and Theory of non-European Urbanism and Architecture [en] <i>Johan Lagae -- Department of Architecture and Urban Planning</i>	6		1	A:2	180
6	E085740 Instruments for Spatial Policy <i>Ann Pisman -- Department of Civil Engineering</i>	3		2	A:1	90
7	E084571 Urban Analysis and Design [en] <i>Michiel Dehaene -- Department of Architecture and Urban Planning</i>	6		2	A:1	180

## 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

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 <i>Peter Vanden Abeele -- Department of Architecture and Urban Planning</i>	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] <i>Michiel Dehaene -- Department of Architecture and Urban Planning</i>	3		A:1 <sup>a</sup> , B:2 <sup>a</sup>	90
16	E087410	Advanced Topics in Urbanism, Urban Design and Landscape 2 [en, nl] <i>Michiel Dehaene -- Department of Architecture and Urban Planning</i>	3		(A:1) <sup>d</sup> , (B:2) <sup>d</sup>	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	E051180 Building Acoustics and Lighting [en] <i>Marcelo Blasco Enbrie -- Department of Architecture and Urban Planning</i>	4			A:1	120
2	E052730 Building Chemistry	3				90
3	E044700 Metal Constructions <i>Kim Van Tittelboom -- Department of Structural Engineering and Building Materials</i>	3			A:2	90
4	E051162 Sustainable Energy Concepts for Buildings <i>Wim Boydens -- Department of Architecture and Urban Planning</i>	4				120
5	E080070 History of Contemporary Construction: Capita Selecta <i>Lionel Devlieger -- Department of Architecture and Urban Planning</i>	4				120
6	E050730 Design and Techniques for Renovation of Buildings	6				180
7	E052271 Foundation Engineering [en] <i>Herman Peiffer -- Department of Civil Engineering</i>	3			A:1	90
8	E084760 Geographic Information Systems (partim) <i>Nico Van de Weghe -- Department of Geography</i>	3			A:1	90
9	E000810 Topography <i>Alain De Wulf -- Department of Geography</i>	3			A:1	90
10	E053510 Geometric Aspects of Roads <i>Hans De Backer -- Department of Civil Engineering</i>	3			A:2	90
11	E044120 Structural Analysis I <i>Robby Caspele -- Department of Structural Engineering and Building Materials</i>	3			B:2	90
12	E044220 Structural Analysis II <i>Kim Van Tittelboom -- Department of Structural Engineering and Building Materials</i>	6			A:1	180
13	E052621 Concrete Structures: Prestressed Concrete and Slabs [en] <i>Roman Wan-Wendner -- Department of Structural Engineering and Building Materials</i>	6			A:2	180
14	E052630 Prefabricated Concrete Constructions [en] <i>Stijn Matthys -- Department of Structural Engineering and Building Materials</i>	3			A:1	90
15	E044230 Structural Analysis of Geotechnical Structures <i>Raphaël Steenberghe -- Department of Structural Engineering and Building Materials</i>	3			A:2	90
16	E050720 Diagnosis and Repair of Buildings [en] <i>Stijn Matthys -- Department of Structural Engineering and Building Materials</i>	3			A:1	90
17	E050340 Building Performance Simulation	3				90

18	E050923	Structural Reliability and Risk Analysis [en] <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	4	A:2	120
19	E044631	Glass and Facade Structures [en] <i>Jan Belis -- Department of Structural Engineering and Building Materials</i>	3	A:2	90
20	E065480	Life Cycle Assessment of Materials and Structures [en] <i>Nele De Belie -- Department of Structural Engineering and Building Materials</i>	3	A:2	90
21	I002706	Wood Technology: Wood Processing and Forest Products	5		150
22	E039060	Sustainable Energy and Rational Use of Energy [en] <i>Filip Strubbe -- Department of Electronics and Information Systems</i>	4	A:2	120
23	E037820	Technology of Electrical Installations [en] <i>Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering</i>	3	A:2	90
24	E061502	Spatial Structures [en] <i>Jan Belis -- Department of Structural Engineering and Building Materials</i>	6	A:1	180
25	E900069	Composites [en] <i>Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering</i>	6	A:1	180
26	E099160	Project Management in Construction [en] <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	3	A:2	90
27	E076431	Introduction to Entrepreneurship	3		90
28	A005646	Introduction to Business Law <i>Diederik Bruloot -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i>	3	A:1	90
29	E076460	Dare to Venture	4		120
30	E076471	Dare to Start [en] <i>Wouter Haerick -- Department of Information Technology</i>	3	A:2	90
31	E078010	Technology and Environment [en] <i>Luc Martens -- Department of Information Technology</i>	3	A:1	90
32	E084970	Integrated Approach to Water Management and Environmental Policy <i>Renaat De Sutter -- Department of Civil Engineering</i>	3	A:2	90
33	C003532	Urbanization in Global Perspective [en] <i>Ben Derudder -- Department of Geography</i>	3	B:2	90
34	C003624	Population and Urban Geography <i>Sofie Annys -- Department of Geography</i>	5	A:1	150
35	A002717	Cultural Anthropology <i>Koenraad Stroeken -- Department of Languages and Cultures</i>	5	A:2	150
36	A000677	Introduction to Anthropology <i>Hugo DeBlock -- Department of Languages and Cultures</i>	3	A:2	90
37	A001974	Aesthetics I <i>Bart Vandenabeele -- Department of Philosophy and Moral Sciences</i>	5	A:2	150
38	A001492	Aesthetics II <i>Bart Vandenabeele -- Department of Philosophy and Moral Sciences</i>	5	A:1	150
39	A005661	Contemporary Art: Ways of Worldmaking <i>Wouter Davidts -- Department of Art, Music and Theatre Sciences</i>	5	(A:1) <sup>d</sup>	150
40	A005288	Avant-garde Film and Video <i>Steven Jacobs -- Department of Art, Music and Theatre Sciences</i>	5	A:1 <sup>a</sup>	150
41	A000418	Film History and Aesthetics <i>Daniël Biltereyst -- Department of Communication Sciences</i>	5	B:1	150
42	A005583	Art Policy and Museum Studies [en] <i>Maude Bass-Krueger -- Department of Art, Music and Theatre Sciences</i>	5	A:2	150
43	A005635	Introduction to Heritage <i>Anna Tummers -- Department of Art, Music and Theatre Sciences</i>	5	A:2	150
44	A005635	Introduction to Heritage <i>Anna Tummers -- Department of Art, Music and Theatre Sciences</i>	3	B:2	90
45	E084533	Contextualizing Contemporary Belgian Architecture <i>Maarten Liefoghe -- Department of Architecture and Urban Planning</i>	6		180
46	E080830	Information Management in Architecture and Construction [nl, en] <i>Paulus Present -- Department of Architecture and Urban Planning</i>	3	A:2	90
47	E080823	Digital Design 3: Advanced Modeling Techniques <i>Ruben Verstraeten -- Department of Architecture and Urban Planning</i>	3	A:2	90

48	E084581	Sustainable Cities <i>Thomas Block -- Department of Political Sciences</i>	6		A:J	180
49	E711047	Sustainable Building	3			90
50	E078320	Sustainable Use of Materials: Plastics and Derived Materials <i>Lode Daelemans -- Department of Materials, Textiles and Chemical Engineering</i>	3		A:2	90
51	E078310	Sustainable Use of Materials: Metals <i>Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering</i>	3		A:1	90
52	E084953	Urban Sound [en] <i>Dick Botteldooren -- Department of Information Technology</i>	3		A:1	90
53	K000459	Sociology <i>Bart Van de Putte -- Department of Sociology</i>	6		A:1	180
54	A001900	Introduction to Psychology <i>Wim Notebaert -- Department of Experimental Psychology</i>	3		A:1	90
55	K000983	Historical Sociology <i>Bart Van de Putte -- Department of Sociology</i>	5		A:2	150
56	E099300	Industry Internship Engineering and Architecture [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	6		A:J	180
57	E099400	Research Internship [en] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	6		A:J	180
58	E099400	Research Internship [en] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	3		B:J	90
59	E098010	Integrated Portfolio [en, nl] <i>Hiep Luong -- Department of Telecommunications and Information Processing</i>	6		A:J	180
60	E098010	Integrated Portfolio [en, nl] <i>Hiep Luong -- Department of Telecommunications and Information Processing</i>	3		B:J	90

### 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 intrinsically 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 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 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