

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

## 2 Courses Related to the Main Subject 37 credits

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

## 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
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1	E081760	Masterstudio A Jan Moens -- Department of Architecture and Urban Planning	10	A:1	300
2	E081770	Masterstudio B Joachim Declerck -- Department of Architecture and Urban Planning	10		300
3	E081780	Masterstudio C Dirk De Meyer -- Department of Architecture and Urban Planning	10	A:1	300
4	E081790	Masterstudio D Dirk Somers -- Department of Architecture and Urban Planning	10	A:1	300
5	E081795	Masterstudio E Annekatrien Verdickt -- Department of Architecture and Urban Planning	10	A:1	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 [en, nl] Johan Lagae -- Department of Architecture and Urban Planning	3	A:1 <sup>a</sup> , B:2 <sup>a</sup>	90
8	E087010	Advanced Topics in Architecture 2 [en, nl] Johan Lagae -- Department of Architecture and Urban Planning	3	(A:1) <sup>d</sup> , (B:2) <sup>d</sup>	90
9	E087100	Advanced Topics in Architecture 3 [en, nl] Wouter Davidts -- Department of Architecture and Urban Planning	6	B:2 <sup>a</sup> , A:1 <sup>a</sup>	180
10	E087110	Advanced Topics in Architecture 4 [en, nl] Wouter Davidts -- Department of Architecture and Urban Planning	6	(B:2) <sup>d</sup> , (A:1) <sup>d</sup>	180
11	E087200	Advanced Topics in Building Physics and Building Techniques 1 [en, nl] Nathan Van Den Bossche -- Department of Architecture and Urban Planning	3	B:2 <sup>a</sup> , A:1 <sup>a</sup>	90
12	E087210	Advanced Topics in Building Physics and Building Techniques 2 [en, nl] Nathan Van Den Bossche -- Department of Architecture and Urban Planning	3	(A:1) <sup>d</sup> , (B:2) <sup>d</sup>	90
13	E087300	Advanced Topics in Design, Methodology and Means of Architectural Design 1 [en, nl] Maarten Van Den Driessche -- Department of Architecture and Urban Planning	3	A:1 <sup>a</sup> , B:2 <sup>a</sup>	90
14	E087310	Advanced Topics in Design, Methodology and Means of Architectural Design 2 [en, nl] Maarten Van Den Driessche -- Department of Architecture and Urban Planning	3	(A:1) <sup>d</sup> , (B:2) <sup>d</sup>	90
15	E087400	Advanced Topics in Urbanism, Urban Design and Landscape 1 [en, nl] Michiel Dehaene -- Department of Architecture and Urban Planning	3	B:2 <sup>a</sup> , A:1 <sup>a</sup>	90
16	E087410	Advanced Topics in Urbanism, Urban Design and Landscape 2 [en, nl] Michiel Dehaene -- Department of Architecture and Urban Planning	3	(B:2) <sup>d</sup> , (A:1) <sup>d</sup>	90
17	E087500	Advanced Topics in Architectural Theory, History and Criticism 1 [en, nl] Maarten Liefoghe -- Department of Architecture and Urban Planning	3	A:1 <sup>a</sup> , B:2 <sup>a</sup>	90
18	E087510	Advanced Topics in Architectural Theory, History and Criticism 2 [en, nl] Maarten Liefoghe -- Department of Architecture and Urban Planning	3	(B:2) <sup>d</sup> , (A:1) <sup>d</sup>	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 [en] Joachim Declerck -- Department of Architecture and Urban Planning	3			A:1	90
2	E084212 Theory of Urbanism [en] Anne Kockelkorn -- Department of Architecture and Urban Planning	6			A:2	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 [en] Arnold Janssens -- Department of Architecture and Urban Planning	3	A:1	90
17	E050923	Structural Reliability and Risk Analysis [en] Robby Caspeele -- Department of Structural Engineering and Building Materials	4	A:2	120
18	E061502	Spatial Structures [en] Jan Belis -- Department of Structural Engineering and Building Materials	6	A:1	180
19	E044631	Glass and Facade Structures [en] Jan Belis -- Department of Structural Engineering and Building Materials	3	A:2	90
20	E044230	Structural Analysis of Geotechnical Structures Raphaël Steenbergen -- Department of Structural Engineering and Building Materials	3	A:2	90
21	E065480	Life Cycle Assessment of Materials and Structures [en] Nele De Belie -- Department of Structural Engineering and Building Materials	3	A:2	90
22	I002706	Wood Technology: Wood Processing and Forest Products [en] Joris Van Acker -- Department of Environment	5	A:2	150
23	E900069	Composites [en] Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering	6	A:1	180
24	E039060	Sustainable Energy and Rational Use of Energy [en] Jeroen Beeckman -- Department of Electronics and Information Systems	4	A:2	120
25	C003532	Urbanization in Global Perspective [en] Ben Derudder -- Department of Geography	3	B:1	90
26	E037820	Technology of Electrical Installations [en] Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering	3	A:2	90
27	E078010	Technology and Environment [en] Luc Martens -- Department of Information Technology	3	A:1	90
28	E084970	Integrated Approach to Water Management and Environmental Policy Renaat De Sutter -- Department of Civil Engineering	3	A:2	90
29	E084581	Sustainable Cities Michiel Dehaene -- Department of Architecture and Urban Planning	6	A:J	180
30	E711047	Sustainable Building Marijke Steeman -- Department of Architecture and Urban Planning	3	A:2	90
31	E078320	Sustainable Use of Materials: Plastics and Derived Materials Lode Daelemans -- Department of Materials, Textiles and Chemical Engineering	3	A:2	90
32	E078310	Sustainable Use of Materials: Metals Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering	3	A:1	90
33	E099160	Project Management in Construction [en] Mario Vanhoucke -- Department of Business Informatics and Operations Management	3	A:2	90
34	E076431	Introduction to Entrepreneurship [en] Petra Andries -- Department of Marketing, Innovation and Organisation	3	A:1	90
35	A005646	Introduction to Corporate Law Diederik Bruloot -- Department of Interdisciplinary Study of Law, Private Law and Business Law	3	A:1	90
36	E076460	Dare to Venture [en] Johan Verrue -- Department of Marketing, Innovation and Organisation	4	A:2	120

37	E076471	Dare to Start [en] Frank Gielen -- Department of Information Technology	3	A:2	90
38	C003624	Population and Urban Geography Maite Dewinter -- Department of Geography	5	A:1	150
39	A002717	Cultural Anthropology Koenraad Stroecken -- Department of Languages and Cultures	5	A:2	150
40	A000677	Introduction to Anthropology Hugo DeBlock -- Department of Languages and Cultures	3	A:2	90
41	K000459	Sociology Bart Van de Putte -- Department of Sociology	6	A:1	180
42	K000983	Historical Sociology Bart Van de Putte -- Department of Sociology	5	A:2	150
43	A005583	Art Policy and Museum Studies [en] Maude Bass-Krueger -- Department of Art, Music and Theatre Sciences	5	A:2	150
44	A001974	Aesthetics I Bart Vandenaabeele -- Department of Philosophy and Moral Sciences	5	A:2	150
45	A001492	Aesthetics II Bart Vandenaabeele -- Department of Philosophy and Moral Sciences	5	A:1	150
46	A005661	Contemporary Art: Ways of Worldmaking Wouter Davids -- Department of Art, Music and Theatre Sciences	5	(A:1) <sup>c</sup>	150
47	A005288	Avant-garde Film and Video Steven Jacobs -- Department of Art, Music and Theatre Sciences	5	A:1 <sup>a</sup>	150
48	A000418	Film History and Aesthetics Daniël Biltreyst -- Department of Communication Sciences	5	B:1	150
49	A005635	Introduction to Heritage Maude Bass-Krueger -- Department of Art, Music and Theatre Sciences	5	A:2	150
50	A005635	Introduction to Heritage Maude Bass-Krueger -- Department of Art, Music and Theatre Sciences	3	B:2	90
51	E084533	Contextualizing Contemporary Belgian Architecture [en] Maarten Liefoghe -- Department of Architecture and Urban Planning	6	A:1	180
52	E080830	Information Management in Architecture and Construction [nl, en] Paulus Present -- Department of Architecture and Urban Planning	3	A:2	90
53	E080823	Digital Design 3: Advanced Modeling Techniques Tiemen Strobbe -- Department of Architecture and Urban Planning	3	A:2	90
54	A001900	Introduction to Psychology Wim Notebaert -- Department of Experimental Psychology	3	A:1	90
55	E099300	Industry Internship Engineering and Architecture [en, nl] Patrick Segers -- Department of Electronics and Information Systems	6	A:J	180
56	E099400	Research Internship [en] Patrick Segers -- Department of Electronics and Information Systems	6	A:J	180
57	E099400	Research Internship [en] Patrick Segers -- Department of Electronics and Information Systems	3	B:J	90
58	E098010	Integrated Portfolio [en, nl] Hiep Luong -- Department of Telecommunications and Information Processing	6	A:J	180
59	E098010	Integrated Portfolio [en, nl] Hiep Luong -- Department of Telecommunications and Information Processing	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				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 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