

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] <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	E051180 Building Acoustics and Lighting [en] <i>Marcelo Blasco Enbrie -- Department of Architecture and Urban Planning</i>	4		1	A:1	120
2	E052730 Building Chemistry	3		1		90
3	E044700 Metal Constructions <i>Kim Van Tittelboom -- Department of Structural Engineering and Building Materials</i>	3		1	A:2	90
4	E051162 Sustainable Energy Concepts for Buildings <i>Wim Boydens -- Department of Architecture and Urban Planning</i>	4		1		120
5	E080070 History of Contemporary Construction: Capita Selecta <i>Lionel Devlieger -- Department of Architecture and Urban Planning</i>	4		1		120
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] <i>Herman Peiffer -- Department of Civil Engineering</i>	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
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 ^a , B:2 ^a	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) ^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] <i>Anne Kockelkorn -- Department of Architecture and Urban Planning</i>	6			A:1	180
3	E080011 History and Theory of non-European Urbanism and Architecture [en] <i>Johan Lagae -- Department of Architecture and Urban Planning</i>	6			A:2	180
4	E086611 Mobility, Spatial Planning and Urban Design of Infrastructure <i>Filip Boelaert -- Department of Civil Engineering</i>	3			A:1	90
5	E085740 Instruments for Spatial Policy <i>Ann Pisman -- Department of Civil Engineering</i>	3			A:1	90
6	E084571 Urban Analysis and Design [en] <i>Michiel Dehaene -- Department of Architecture and Urban Planning</i>	6			A:1	180
7	E084953 Urban Sound [en] <i>Dick Botteldooren -- Department of Information Technology</i>	3			A:1	90
8	E000810 Topography <i>Alain De Wulf -- Department of Geography</i>	3			A:1	90
9	E053510 Geometric Aspects of Roads <i>Hans De Backer -- Department of Civil Engineering</i>	3			A:2	90
10	E044120 Structural Analysis I <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	3			B:2	90
11	E044220 Structural Analysis II <i>Kim Van Tittelboom -- Department of Structural Engineering and Building Materials</i>	6			A:1	180
12	E084760 Geographic Information Systems (partim) <i>Nico Van de Weghe -- Department of Geography</i>	3			A:1	90
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	E050720 Diagnosis and Repair of Buildings [en] <i>Stijn Matthys -- Department of Structural Engineering and Building Materials</i>	3			A:1	90
16	E050340 Building Performance Simulation	3				90

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

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