

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<br><i>Wim Haegeman -- Department of Civil Engineering</i>  | 4    |     | 1   | A:2     | 120   |
| 2  | E052413 Reinforced and Prestressed Concrete [en]<br><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<br><i>Jelle Laverge -- Department of Architecture and Urban Planning</i>                     | 3    |     | 2   | A:1     | 90    |
| 4  | E050942 Fire Protection of Buildings<br><i>Bart Merci -- Department of Structural Engineering and Building Materials</i>                    | 4    |     | 2   | A:2     | 120   |
| 5  | E083940 Professional Practice: Deontology for the Architect Engineer<br><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 [en]<br><i>Joachim Declerck -- Department of Architecture and Urban Planning</i>                                  | 3    |     | 1   | A:1     | 90    |
| 2  | E084212 Theory of Urbanism [en]<br><i>Anne Kockelkorn -- Department of Architecture and Urban Planning</i>                                       | 6    |     | 1   | A:2     | 180   |
| 3  | E086611 Mobility, Spatial Planning and Urban Design of Infrastructure<br><i>Filip Boelaert -- Department of Civil Engineering</i>                | 3    |     | 1   | A:1     | 90    |
| 4  | E085095 Workshop on Spatial Analysis and Urban Design<br><i>Kristiaan Borret -- Department of Architecture and Urban Planning</i>                | 10   |     | 1   | A:2     | 300   |
| 5  | E080011 History and Theory of non-European Urbanism and Architecture [en]<br><i>Johan Lagae -- Department of Architecture and Urban Planning</i> | 6    |     | 1   | A:2     | 180   |
| 6  | E085740 Instruments for Spatial Policy<br><i>Ann Pisman -- Department of Civil Engineering</i>   | 3    |     | 2   | A:1     | 90    |
| 7  | E084571 Urban Analysis and Design [en]<br><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<br><i>Jan Moens -- Department of Architecture and Urban Planning</i>  | 10 | A:1                                     | 300 |
| 2  | E081770 | Masterstudio B   | 10 |   | 300 |
| 3  | E081780 | Masterstudio C<br><i>Dirk De Meyer -- Department of Architecture and Urban Planning</i>  | 10 | A:1                                     | 300 |
| 4  | E081790 | Masterstudio D<br><i>Dirk Somers -- Department of Architecture and Urban Planning</i>  | 10 | A:1                                     | 300 |
| 5  | E081795 | Masterstudio E<br><i>Annekatrien Verdickt -- Department of Architecture and Urban Planning</i>   | 10 | A:1                                     | 300 |
| 6  | E085092 | Studio on Spatial Analysis and Projects<br><i>Peter Vanden Abeele -- Department of Architecture and Urban Planning</i>   | 12 | A:2                                     | 360 |
| 7  | E087000 | Advanced Topics in Architecture 1 [en, nl]<br><i>Johan Lagae -- Department of Architecture and Urban Planning</i>  | 3  | A:1 <sup>a</sup> , B:2 <sup>a</sup>     | 90  |
| 8  | E087010 | Advanced Topics in Architecture 2 [en, nl]<br><i>Johan Lagae -- Department of Architecture and Urban Planning</i>  | 3  | (B:2) <sup>d</sup> , (A:1) <sup>d</sup> | 90  |
| 9  | E087100 | Advanced Topics in Architecture 3 [en, nl]<br><i>Wouter Davidts -- Department of Architecture and Urban Planning</i>   | 6  | B:2 <sup>a</sup> , A:1 <sup>a</sup>     | 180 |
| 10 | E087110 | Advanced Topics in Architecture 4 [en, nl]<br><i>Wouter Davidts -- Department of Architecture and Urban Planning</i>   | 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]<br><i>Nathan Van Den Bossche -- Department of Architecture and Urban Planning</i>                 | 3  | A:1 <sup>a</sup> , B:2 <sup>a</sup>     | 90  |
| 12 | E087210 | Advanced Topics in Building Physics and Building Techniques 2 [en, nl]<br><i>Nathan Van Den Bossche -- Department of Architecture and Urban Planning</i>                 | 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]<br><i>Maarten Van Den Driessche -- Department of Architecture and Urban Planning</i> | 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]<br><i>Maarten Van Den Driessche -- Department of Architecture and Urban Planning</i> | 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]<br><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]<br><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<br><i>Maarten Liefoghe -- Department of Architecture and Urban Planning</i>                             | 3  |   | 90  |
| 18 | E087510 | Advanced Topics in Architectural Theory, History and Criticism 2 [en, nl]<br><i>Maarten Liefoghe -- Department of Architecture and Urban Planning</i>                    | 3  | (A:1) <sup>d</sup> , (B:2) <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  | E051180 Building Acoustics and Lighting [en]<br><i>Marcelo Blasco Enbrie -- Department of Architecture and Urban Planning</i>            | 4    |     |     | A:1     | 120   |
| 2  | E052730 Building Chemistry [en]<br><i>Yi Ouyang -- Department of Materials, Textiles and Chemical Engineering</i>                        | 3    |     |     | A:2     | 90    |
| 3  | E044700 Metal Constructions<br><i>Delphine Sonck -- Department of Structural Engineering and Building Materials</i>                      | 3    |     |     | A:2     | 90    |
| 4  | E051162 Sustainable Energy Concepts for Buildings<br><i>Wim Boydens -- Department of Architecture and Urban Planning</i>                 | 4    |     |     | A:1     | 120   |
| 5  | E080070 History of Contemporary Construction: Capita Selecta<br><i>Lionel Devlieger -- Department of Architecture and Urban Planning</i> | 4    |     |     | A:2     | 120   |
| 6  | E050730 Design and Techniques for Renovation of Buildings<br><i>Wouter Callebaut -- Department of Architecture and Urban Planning</i>    | 6    |     |     | A:1     | 180   |
| 7  | E052271 Foundation Engineering [en]<br><i>Herman Peiffer -- Department of Civil Engineering</i>  | 3    |     |     | A:1     | 90    |

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|----|---------|---|---|-----|-----|
| 8  | E084760 | Geographic Information Systems (partim)<br><i>Nico Van de Weghe -- Department of Geography</i>  | 3 | A:1 | 90  |
| 9  | E000810 | Topography<br><i>Alain De Wulf -- Department of Geography</i>   | 3 | A:1 | 90  |
| 10 | E053510 | Geometric Aspects of Roads<br><i>Hans De Backer -- Department of Civil Engineering</i>  | 3 | A:2 | 90  |
| 11 | E044120 | Structural Analysis I<br><i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>                                       | 3 | B:2 | 90  |
| 12 | E044220 | Structural Analysis II<br><i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>                                      | 6 | A:1 | 180 |
| 13 | E052621 | Concrete Structures: Prestressed Concrete and Slabs [en]<br><i>Roman Wan-Wendner -- Department of Structural Engineering and Building Materials</i> | 6 | A:2 | 180 |
| 14 | E052630 | Prefabricated Concrete Constructions [en]<br><i>Stijn Matthys -- Department of Structural Engineering and Building Materials</i>                    | 3 | A:1 | 90  |
| 15 | E044230 | Structural Analysis of Geotechnical Structures<br><i>Raphaël Steenberghe -- Department of Structural Engineering and Building Materials</i>         | 3 | A:2 | 90  |
| 16 | E050720 | Diagnosis and Repair of Buildings [en]<br><i>Stijn Matthys -- Department of Structural Engineering and Building Materials</i>                       | 3 | A:1 | 90  |
| 17 | E050340 | Building Performance Simulation [en]<br><i>Arnold Janssens -- Department of Architecture and Urban Planning</i>                                     | 3 | A:1 | 90  |
| 18 | E050923 | Structural Reliability and Risk Analysis [en]<br><i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>               | 4 | A:2 | 120 |
| 19 | E044631 | Glass and Facade Structures [en]<br><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]<br><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 [en]<br><i>Joris Van Acker -- Department of Environment</i>                                    | 5 | A:2 | 150 |
| 22 | E039060 | Sustainable Energy and Rational Use of Energy [en]<br><i>Jeroen Beeckman -- Department of Electronics and Information Systems</i>                   | 4 | A:2 | 120 |
| 23 | E037820 | Technology of Electrical Installations [en]<br><i>Peter Sergeant -- Department of Electromechanical, Systems and Metal Engineering</i>              | 3 | A:2 | 90  |
| 24 | E061502 | Spatial Structures [en]<br><i>Jan Belis -- Department of Structural Engineering and Building Materials</i>  | 6 | A:1 | 180 |
| 25 | E900069 | Composites [en]<br><i>Wim Van Paeppegem -- Department of Materials, Textiles and Chemical Engineering</i>   | 6 | A:1 | 180 |
| 26 | E099160 | Project Management in Construction [en]<br><i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>                   | 3 | A:2 | 90  |
| 27 | E076431 | Introduction to Entrepreneurship [en]<br><i>Petra Andries -- Department of Marketing, Innovation and Organisation</i>                               | 3 | A:1 | 90  |
| 28 | A005646 | Introduction to Corporate Law<br><i>Diederik Bruloot -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i>              | 3 | A:1 | 90  |
| 29 | E076460 | Dare to Venture [en]<br><i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i>   | 4 | A:2 | 120 |
| 30 | E076471 | Dare to Start [en]<br><i>Wouter Haerick -- Department of Information Technology</i>   | 3 | A:2 | 90  |
| 31 | E078010 | Technology and Environment [en]<br><i>Luc Martens -- Department of Information Technology</i>   | 3 | A:1 | 90  |
| 32 | E084970 | Integrated Approach to Water Management and Environmental Policy<br><i>Renaat De Sutter -- Department of Civil Engineering</i>                      | 3 | A:2 | 90  |
| 33 | C003532 | Urbanization in Global Perspective [en]<br><i>Ben Derudder -- Department of Geography</i>   | 3 | B:1 | 90  |
| 34 | C003624 | Population and Urban Geography<br><i>Maïte Dewinter -- Department of Geography</i>  | 5 | A:1 | 150 |
| 35 | A002717 | Cultural Anthropology<br><i>Koenraad Stroeken -- Department of Languages and Cultures</i>   | 5 | A:2 | 150 |

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|----|---------|---|---|--------------------|-----|
| 36 | A000677 | Introduction to Anthropology<br><i>Hugo DeBlock -- Department of Languages and Cultures</i>   | 3 | A:2                | 90  |
| 37 | A001974 | Aesthetics I<br><i>Bart Vandenabeele -- Department of Philosophy and Moral Sciences</i>   | 5 | A:2                | 150 |
| 38 | A001492 | Aesthetics II<br><i>Bart Vandenabeele -- Department of Philosophy and Moral Sciences</i>  | 5 | A:1                | 150 |
| 39 | A005661 | Contemporary Art: Ways of Worldmaking<br><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<br><i>Steven Jacobs -- Department of Art, Music and Theatre Sciences</i>   | 5 | A:1 <sup>a</sup>   | 150 |
| 41 | A000418 | Film History and Aesthetics<br><i>Daniël Biltreyts -- Department of Communication Sciences</i>  | 5 | B:1                | 150 |
| 42 | A005583 | Art Policy and Museum Studies [en]<br><i>Maude Bass-Krueger -- Department of Art, Music and Theatre Sciences</i>                                    | 5 | A:2                | 150 |
| 43 | A005635 | Introduction to Heritage<br><i>Maude Bass-Krueger -- Department of Art, Music and Theatre Sciences</i>  | 5 | A:2                | 150 |
| 44 | A005635 | Introduction to Heritage<br><i>Maude Bass-Krueger -- Department of Art, Music and Theatre Sciences</i>  | 3 | B:2                | 90  |
| 45 | E084533 | Contextualizing Contemporary Belgian Architecture [en]<br><i>Maarten Liefoghe -- Department of Architecture and Urban Planning</i>                  | 6 | A:1                | 180 |
| 46 | E080830 | Information Management in Architecture and Construction [nl, en]<br><i>Paulus Present -- Department of Architecture and Urban Planning</i>          | 3 | A:2                | 90  |
| 47 | E080823 | Digital Design 3: Advanced Modeling Techniques<br><i>Ruben Verstraeten -- Department of Architecture and Urban Planning</i>                         | 3 | A:2                | 90  |
| 48 | E084581 | Sustainable Cities<br><i>Michiel Dehaene -- Department of Architecture and Urban Planning</i>   | 6 | A:J                | 180 |
| 49 | E711047 | Sustainable Building<br><i>Marijke Steeman -- Department of Architecture and Urban Planning</i>   | 3 | A:2                | 90  |
| 50 | E078320 | Sustainable Use of Materials: Plastics and Derived Materials<br><i>Lode Daelemans -- Department of Materials, Textiles and Chemical Engineering</i> | 3 | A:2                | 90  |
| 51 | E078310 | Sustainable Use of Materials: Metals<br><i>Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering</i>                           | 3 | A:1                | 90  |
| 52 | E084953 | Urban Sound [en]<br><i>Dick Botteldooren -- Department of Information Technology</i>  | 3 | A:1                | 90  |
| 53 | K000459 | Sociology<br><i>Bart Van de Putte -- Department of Sociology</i>  | 6 | A:1                | 180 |
| 54 | A001900 | Introduction to Psychology<br><i>Wim Notebaert -- Department of Experimental Psychology</i>   | 3 | A:1                | 90  |
| 55 | K000983 | Historical Sociology<br><i>Bart Van de Putte -- Department of Sociology</i>   | 5 | A:2                | 150 |
| 56 | E099300 | Industry Internship Engineering and Architecture [en, nl]<br><i>Patrick Segers -- Department of Electronics and Information Systems</i>             | 6 | A:J                | 180 |
| 57 | E099400 | Research Internship [en]<br><i>Patrick Segers -- Department of Electronics and Information Systems</i>  | 6 | A:J                | 180 |
| 58 | E099400 | Research Internship [en]<br><i>Patrick Segers -- Department of Electronics and Information Systems</i>  | 3 | B:J                | 90  |
| 59 | E098010 | Integrated Portfolio [en, nl]<br><i>Hiep Luong -- Department of Telecommunications and Information Processing</i>                                   | 6 | A:J                | 180 |
| 60 | E098010 | Integrated Portfolio [en, nl]<br><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 |
|----|--------|------|-----|-----|---------|-------|
|----|--------|------|-----|-----|---------|-------|

### 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 |