

Faculty of Engineering and Architecture

Bachelor of Science in Engineering Technology -- Civil Engineering Technology

Language of instruction: Dutch

Programme version 8

1 General Courses 60 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | E701033 Mathematics I <i>Tanja Van Hecke -- Department of Information Technology</i> | 6 | | 1 | A:1 | 180 |
| 2 | E701023 General Chemistry <i>Maarten Sabbe -- Department of Materials, Textiles and Chemical Engineering</i> | 6 | | 1 | A:1 | 180 |
| 3 | E701024 Electricity <i>Luc Dupré -- Department of Electromechanical, Systems and Metal Engineering</i> | 6 | | 1 | A:1 | 180 |
| 4 | E701051 Design Tools <i>Kathleen Gekiere -- Department of Structural Engineering and Building Materials</i> | 4 | | 1 | A:1 | 120 |
| 5 | E701029 Materials <i>Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering</i> | 3 | | 1 | A:1 | 90 |
| 6 | E701030 Mechanics <i>Tom Claessens -- Department of Materials, Textiles and Chemical Engineering</i> | 6 | | 1 | A:J | 180 |
| 7 | E701052 Engineering Project <i>Kathleen Gekiere -- Department of Structural Engineering and Building Materials</i> | 5 | | 1 | A:J | 150 |
| 8 | E701034 Mathematics II <i>Tanja Van Hecke -- Department of Information Technology</i> | 6 | | 1 | A:2 | 180 |
| 9 | E701056 Physics <i>Sven Van Loo -- Department of Applied Physics</i> | 6 | | 1 | A:2 | 180 |
| 10 | E701053 Computer Science <i>Helga Naessens -- Department of Information Technology</i> | 6 | | 1 | A:2 | 180 |
| 11 | E701054 Sustainable Energy Technologies <i>Johan Lauwaert -- Department of Electronics and Information Systems</i> | 3 | | 1 | A:2 | 90 |
| 12 | E701055 Electronics <i>Jo Verhaevert -- Department of Information Technology</i> | 3 | | 1 | A:2 | 90 |

2 General Courses 15 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | E702010 Signals and Systems <i>Jan Beyens -- Department of Information Technology</i> | 6 | | 2 | A:1 | 180 |
| 2 | E702090 Statistics and Mathematical Data-analysis <i>Tanja Van Hecke -- Department of Information Technology</i> | 6 | | 2 | A:2 | 180 |
| 3 | E702702 Business Administration <i>Birger Raa -- Department of Industrial Systems Engineering and Product Design</i> | 3 | | 3 | A:2 | 90 |

3 Courses Related to the Main Subject 96 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | E702080 Thermodynamics and Fluid Mechanics <i>Tom Claessens -- Department of Materials, Textiles and Chemical Engineering</i> | 6 | | 2 | A:1 | 180 |
| 2 | E702030 Mechanics of Materials <i>Marc Wouters -- Department of Materials, Textiles and Chemical Engineering</i> | 3 | | 2 | A:1 | 90 |
| 3 | E702070 Physics of Waves and Particles <i>Sven Van Loo -- Department of Applied Physics</i> | 3 | | 2 | A:1 | 90 |

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|----|---------|--|---|---|-----|-----|
| 4 | E711023 | Structural Analysis Calculation Techniques I <i>Wouter Botte -- Department of Structural Engineering and Building Materials</i> | 3 | 2 | A:1 | 90 |
| 5 | E711024 | Construction of Buildings I <i>Hilde Witters -- Department of Structural Engineering and Building Materials</i> | 3 | 2 | A:1 | 90 |
| 6 | E711071 | Building Information Management for Construction (BIM) <i>Kathleen Gekiere -- Department of Structural Engineering and Building Materials</i> | 3 | 2 | A:1 | 90 |
| 7 | E711028 | Structural Analysis Calculation Techniques II <i>Wouter Botte -- Department of Structural Engineering and Building Materials</i> | 6 | 2 | A:2 | 180 |
| 8 | E711029 | Applied Hydraulics <i>Wouter De Corte -- Department of Structural Engineering and Building Materials</i> | 3 | 2 | A:2 | 90 |
| 9 | E712010 | Topography | 6 | 2 | A:2 | 180 |
| 10 | E711054 | Construction of Buildings II <i>Jan Belis -- Department of Structural Engineering and Building Materials</i> | 3 | 2 | A:2 | 90 |
| 11 | E711055 | Concrete Technology <i>Veerle Boel -- Department of Structural Engineering and Building Materials</i> | 3 | 2 | A:2 | 90 |
| 12 | E711056 | Applied Building Technology <i>Ignas Vandenbruwane -- Department of Structural Engineering and Building Materials</i> | 3 | 2 | A:2 | 90 |
| 13 | E711034 | Steel Construction I <i>Wouter Botte -- Department of Structural Engineering and Building Materials</i> | 3 | 3 | A:1 | 90 |
| 14 | E711067 | Road Construction <i>Wouter De Corte -- Department of Structural Engineering and Building Materials</i> | 6 | 3 | A:1 | 180 |
| 15 | E711064 | Geotechnics <i>Dirk Vinckier -- Department of Civil Engineering</i> | 3 | 3 | A:1 | 90 |
| 16 | E712030 | Building Physics | 5 | 3 | | 150 |
| 17 | E711038 | Design of Concrete Structures I <i>Veerle Boel -- Department of Structural Engineering and Building Materials</i> | 6 | 3 | A:1 | 180 |
| 18 | E712040 | Design Engineering | 6 | 3 | | 180 |
| 19 | E711080 | Building Services <i>Jelle Laverge -- Department of Architecture and Urban Planning</i> | 4 | 3 | | 120 |
| 20 | E715027 | Works in and around the Area and Infrastructure <i>Hilde Witters -- Department of Structural Engineering and Building Materials</i> | 3 | 3 | A:2 | 90 |
| 21 | E711066 | Construction Engineering <i>Ignas Vandenbruwane -- Department of Structural Engineering and Building Materials</i> | 3 | 3 | A:2 | 90 |
| 22 | E711090 | Project and Site Management <i>Geert Versweyveld -- Department of Structural Engineering and Building Materials</i> | 3 | 3 | | 90 |
| 23 | E711026 | Finite Element Applications in Structural Engineering <i>Wouter De Corte -- Department of Structural Engineering and Building Materials</i> | 3 | 3 | | 90 |
| 24 | E711043 | Bachelor Thesis <i>Greet Deruyter -- Department of Civil Engineering</i> | 6 | 3 | A:2 | 180 |

4 Elective Courses

9 credits

Subscribe to 9 credit units from 2 modules from the following list. Subject to approval by the faculty.

4.1 Societal Elective Courses

Subscribe to 3 credit units from the following list. Subject to approval by the faculty.

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|----------|-------|
| 1 | F001021 Basic Entrepreneurship <i>Yannick Dillen -- Department of Marketing, Innovation and Organisation</i> | 3 | UKV | 2 | A:1 | 90 |
| 2 | E076471 Dare to Start [en] <i>Wouter Haerick -- Department of Information Technology</i> | 3 | | 2 | A:2 | 90 |
| 3 | F001020 Introduction to Entrepreneurship [en] <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i> | 3 | | 2 | A:1 | 90 |
| 4 | C004009 History and Philosophy of Sciences <i>Maarten Van Dyck -- Department of Philosophy and Moral Sciences</i> | 3 | | 2 | B:2 | 90 |
| 5 | A003001 Academic English [en] <i>Geert Jacobs -- Department of Linguistics</i> | 3 | UKV | 2 | B:1, A:2 | 90 |
| 6 | H001977 Coaching and Diversity <i>Elisabeth De Schauwer -- Department of Special Education</i> | 3 | UKV | 2 | A:J | 90 |

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|---|---------|---|---|-----|---|-----|----|
| 7 | E099210 | Essentials of Artificial Intelligence: a Beginner's Guide [en] <i>Joni Dambre -- Department of Electronics and Information Systems</i> | 3 | UKV | 2 | A:1 | 90 |
| 8 | F001012 | Leadership for student directors [en, nl] <i>Ann-Sophie De Pauw -- Department of Economics</i> | 3 | UKV | 2 | A:1 | 90 |

4.2

6 credits

Subscribe to 6 credit units from the following list. Subject to approval by the faculty.

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-------|-----|---------|-------|
| 1 | E711063 Design of Concrete Structures II <i>Veerle Boel -- Department of Structural Engineering and Building Materials</i> | 3 | bouwk | 3 | | 90 |
| 2 | E711058 Electricity Technology and Lighting <i>Tim Saillé -- Department of Electromechanical, Systems and Metal Engineering</i> | 3 | bouwk | 3 | | 90 |
| 3 | E712050 Topometrie en referentiesystemen | 6 | landm | 3 | | 180 |

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 2026-2027 | f: annually, from 2027-2028 | i: annually, from 2028-2029 |
| b: tri-annually | d: bi-annually, from 2026-2027 | g: bi-annually, from 2027-2028 | j: bi-annually, from 2028-2029 |
| | e: tri-annually, from 2026-2027 | h: tri-annually, from 2027-2028 | k: tri-annually, from 2028-2029 |