

Faculty of Engineering and Architecture

Bachelor of Science in Engineering Technology -- Information Engineering Technology

Language of instruction: Dutch

Programme version 4

## 1 General Courses 60 credits

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

## 2 General Courses 15 credits

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

## 3 Courses Related to the Main Subject 102 credits

In het overgangsjaar 2021-2022 wordt 'Discrete wiskunde' tweemaal aangeboden in het programma: éénmaal aan studenten in het tweede bachelorjaar, éénmaal aan studenten in het derde bachelorjaar. Elke student dient dit vak slechts éénmaal op te nemen.

| Nr | Course                                                                                        | CRDT | Ref | MT1 | Session | Study |
|----|-----------------------------------------------------------------------------------------------|------|-----|-----|---------|-------|
| 1  | E702040 Electronics II<br>Stefaan Lambrecht -- Department of Information Technology           | 6    |     | 2   | A:1     | 180   |
| 2  | E702050 Object Oriented Programming<br>Helga Naessens -- Department of Information Technology | 6    |     | 2   | A:1     | 180   |

|    |         |                                                                                                   |   |   |     |     |
|----|---------|---------------------------------------------------------------------------------------------------|---|---|-----|-----|
| 3  | E761029 | Discrete Mathematics<br>Jeroen van der Hooft -- Department of Information Technology              | 3 | 2 | A:1 | 90  |
| 4  | E761018 | Programming in C and C++<br>Helga Naessens -- Department of Information Technology                | 6 | 2 | A:1 | 180 |
| 5  | E702060 | Signals and Systems II<br>Jan Beyens -- Department of Information Technology                      | 3 | 2 | A:2 | 90  |
| 6  | E761035 | Software Engineering<br>Veerle Ongenae -- Department of Information Technology                    | 6 | 2 | A:2 | 180 |
| 7  | E761036 | User Interfaces<br>Veerle Ongenae -- Department of Information Technology                         | 6 | 2 | A:2 | 180 |
| 8  | E761037 | Software Project<br>Veerle Ongenae -- Department of Information Technology                        | 3 | 2 | A:2 | 90  |
| 9  | E761060 | Operating Systems<br>Wim Van Den Breen -- Department of Information Technology                    | 6 | 2 | A:2 | 180 |
| 10 | E761038 | Server-side application frameworks<br>Veerle Ongenae -- Department of Information Technology      | 6 | 3 | A:1 | 180 |
| 11 | E761028 | Relational Databases<br>Guy De Tré -- Department of Telecommunications and Information Processing | 6 | 3 | A:1 | 180 |
| 12 | E702100 | Computer Hardware<br>Wim Van Den Breen -- Department of Information Technology                    | 6 | 3 | A:1 | 180 |
| 13 | E761039 | Data structures<br>Sam Leroux -- Department of Information Technology                             | 3 | 3 | A:1 | 90  |
| 14 | E761040 | Distributed data processing<br>Bruno Volckaert -- Department of Information Technology            | 3 | 3 | B:2 | 90  |
| 15 | E761041 | Software Development & Operations<br>Bruno Volckaert -- Department of Information Technology      | 3 | 3 | A:1 | 90  |
| 16 | E761050 | Computer Networks<br>Wouter Tavernier -- Department of Information Technology                     | 6 | 3 | A:1 | 180 |
| 17 | C002126 | Multimedia<br>Peter Lambert -- Department of Electronics and Information Systems                  | 6 | 3 | A:2 | 180 |
| 18 | E761070 | Network Management<br>Wouter Tavernier -- Department of Information Technology                    | 3 | 3 | A:2 | 90  |
| 19 | E761042 | Algorithms<br>Pieter Simoens -- Department of Information Technology                              | 6 | 3 | A:2 | 180 |
| 20 | E731028 | Data Communication<br>Jo Verhaevert -- Department of Information Technology                       | 3 | 3 | A:2 | 90  |
| 21 | E761043 | Interdisciplinary Project<br>Helga Naessens -- Department of Information Technology               | 6 | 3 | A:2 | 180 |

#### 4 Elective Courses 3 credits

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

| Nr | Course                                                                                                                                | CRDT | Ref | MT1 | Session  | Study |
|----|---------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|----------|-------|
| 1  | E702070 Physics of Waves and Particles<br>Sven Van Loo -- Department of Applied Physics                                               | 3    |     | 2   | A:1      | 90    |
| 2  | E076450 Basic Entrepreneurship<br>Yannick Dillen -- Department of Marketing, Innovation and Organisation                              | 3    | UKV | 2   | A:1      | 90    |
| 3  | E721019 Research Methodology<br>Jeroen Lauwaert -- Department of Materials, Textiles and Chemical Engineering                         | 3    |     | 2   | A:2      | 90    |
| 4  | E092100 Biosystems<br>Pascal Verdonck -- Department of Electronics and Information Systems                                            | 3    |     | 2   | A:1      | 90    |
| 5  | E075310 Ethics, Engineering and Society<br>Seppe Segers -- Department of Philosophy and Moral Sciences                                | 3    |     | 2   | A:2      | 90    |
| 6  | C000957 Intellectual Property Rights<br>Hendrik Vanhees -- Department of Interdisciplinary Study of Law, Private Law and Business Law | 3    |     | 2   | A:2      | 90    |
| 7  | A003001 Academic English [en]<br>Geert Jacobs -- Department of Linguistics                                                            | 3    | UKV | 2   | B:1, A:2 | 90    |

#### 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 |