

Faculty of Engineering and Architecture

Bachelor of Science in Engineering -- Computer Science Engineering

Language of instruction: Dutch

Programme version 3

1 General Courses 60 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | E001142 Basic Mathematics <i>Hennie De Schepper -- Department of Electronics and Information Systems</i> | 3 | | 1 | A:1 | 90 |
| 2 | E020061 Physics I <i>Christophe Leys -- Department of Applied Physics</i> | 6 | | 1 | A:1 | 180 |
| 3 | E001132 Mathematical Analysis I <i>Hennie De Schepper -- Department of Electronics and Information Systems</i> | 6 | | 1 | A:1 | 180 |
| 4 | E001460 Discrete Mathematics I <i>Mario Pickavet -- Department of Information Technology</i> | 4 | | 1 | A:1 | 120 |
| 5 | E070070 Chemistry: the Structure of Matter <i>Marie-Françoise Reyniers -- Department of Materials, Textiles and Chemical Engineering</i> | 4 | | 1 | A:1 | 120 |
| 6 | E098513 Modelling, Making and Measuring <i>Filip Beunis -- Department of Electronics and Information Systems</i> | 4 | | 1 | A:1 | 120 |
| 7 | E015041 Informatics <i>Bart Dhoedt -- Department of Information Technology</i> | 6 | | 1 | A:J | 180 |
| 8 | E001222 Mathematical Analysis II <i>Hendrik De Bie -- Department of Electronics and Information Systems</i> | 4 | | 1 | A:2 | 120 |
| 9 | E000662 Geometry and Linear Algebra <i>Hennie De Schepper -- Department of Electronics and Information Systems</i> | 7 | | 1 | A:2 | 210 |
| 10 | E070080 Chemical Thermodynamics <i>Marie-Françoise Reyniers -- Department of Materials, Textiles and Chemical Engineering</i> | 3 | | 1 | A:2 | 90 |
| 11 | E003043 Probability and Statistics <i>Jasper De Bock -- Department of Electronics and Information Systems</i> | 6 | | 1 | A:2 | 180 |
| 12 | E066012 Materials Technology <i>Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering</i> | 4 | | 1 | A:2 | 120 |
| 13 | E098512 Sustainability, Entrepreneurship and Ethics <i>Filip Beunis -- Department of Electronics and Information Systems</i> | 3 | | 1 | A:2 | 90 |

2 General Courses 30 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | E090320 Electrical Circuits and Networks <i>Kristiaan Neyts -- Department of Electronics and Information Systems</i> | 6 | | 2 | A:1 | 180 |
| 2 | E040420 Mechanics of Materials <i>Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering</i> | 3 | | 2 | B:1 | 90 |
| 3 | E020220 Physics II <i>Christophe Leys -- Department of Applied Physics</i> | 6 | | 2 | A:1 | 180 |
| 4 | E001321 Mathematical Analysis III <i>Hendrik De Bie -- Department of Electronics and Information Systems</i> | 6 | | 2 | A:1 | 180 |
| 5 | E005020 Analysis of Systems and Signals <i>Gert De Cooman -- Department of Electronics and Information Systems</i> | 6 | | 2 | A:1 | 180 |
| 6 | E076040 Sustainable Business Operations <i>Ludo Poelaert -- Department of Industrial Systems Engineering and Product Design</i> | 3 | | 2 | A:1 | 90 |

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | E034110 Computer Architecture <i>Koen De Bosschere -- Department of Electronics and Information Systems</i> | 6 | | 2 | A:2 | 180 |
| 2 | E017210 Computer Programming <i>Filip De Turck -- Department of Information Technology</i> | 6 | | 2 | A:2 | 180 |
| 3 | E003110 Applied Probability <i>Sabine Wittevrongel -- Department of Telecommunications and Information Processing</i> | 3 | | 2 | A:2 | 90 |
| 4 | E001470 Discrete Mathematics II <i>Joris Walraevens -- Department of Telecommunications and Information Processing</i> | 6 | | 2 | A:2 | 180 |
| 5 | E099111 Engineering Project <i>Francis wyffels -- Department of Electronics and Information Systems</i> | 3 | | 2 | A:2 | 90 |
| 6 | E018310 Algorithms and Data Structures <i>Tom Dhaene -- Department of Information Technology</i> | 6 | | 2 | A:2 | 180 |
| 7 | E008620 Communication Networks <i>Wouter Tavernier -- Department of Information Technology</i> | 6 | | 3 | A:1 | 180 |
| 8 | E019010 Operating Systems <i>Koen De Bosschere -- Department of Electronics and Information Systems</i> | 6 | | 3 | A:1 | 180 |
| 9 | E031110 Digital Electronics <i>Joni Dambre -- Department of Electronics and Information Systems</i> | 6 | | 3 | A:1 | 180 |
| 10 | E012110 Communication Theory <i>Nele Noels -- Department of Telecommunications and Information Processing</i> | 6 | | 3 | A:1 | 180 |
| 11 | E018110 Databases <i>Guy De Tré -- Department of Telecommunications and Information Processing</i> | 6 | | 3 | A:1 | 180 |
| 12 | E017610 Software Engineering <i>Bart Dhoedt -- Department of Information Technology</i> | 6 | | 3 | A:2 | 180 |
| 13 | E019130 Multimedia Techniques <i>Peter Lambert -- Department of Electronics and Information Systems</i> | 6 | | 3 | A:2 | 180 |
| 14 | E002021 Formal Systems Modelling for Software <i>Eric Laermans -- Department of Information Technology</i> | 6 | | 3 | A:2 | 180 |
| 15 | E099010 Cross-Course Project <i>Dirk Stroobandt -- Department of Electronics and Information Systems</i> | 6 | | 3 | A:2 | 180 |
| 16 | E016020 Automata Theory <i>Sabine Wittevrongel -- Department of Telecommunications and Information Processing</i> | 6 | | 3 | A:2 | 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 2023-2024 | f: annually, from 2024-2025 | i: annually, from 2025-2026 |
| b: tri-annually | d: bi-annually, from 2023-2024 | g: bi-annually, from 2024-2025 | j: bi-annually, from 2025-2026 |
| | e: tri-annually, from 2023-2024 | h: tri-annually, from 2024-2025 | k: tri-annually, from 2025-2026 |