

Study Programme

Academic year 2021-2022

Faculty of Sciences Bachelor of Science in Computer Science

Language of instruction: Dutch Programme version 8

| 1 | General | Courses | | | 162 c | redits |
|---------|-------------------|--|-----------|--------------|----------------|--------------|
| Nr 1 | Course C003770 | Programming | CRDT 6 | Ref MT1 1 | Session A:1 | Study 180 |
| 2 | C003771 | Kris Coolsaet Department of Mathematics, Computer Science and Statistics Databases Curry Da Trá- Department of Telesemmunications and Information Processing | 6 | 1 | A:1 | 180 |
| 3 | C000939 | Computer Use Peter Dawyndt Department of Mathematics, Computer Science and Statistics | 6 | 1 | A:1 | 180 |
| 4 | C002908 | Reasoning, Abstracting and Formulating Eric Laermans Department of Information Technology | 6 | 1 | A:1 | 180 |
| 5 | C001893 | Discrete Mathematics Bart De Bruyn Department of Mathematics: Algebra and Geometry | 6 | 1 | A:1 | 180 |
| 6 | C003772 | Object Oriented Programming Kris Coolsaet Department of Mathematics, Computer Science and Statistics | 6 | 1 | A:2 | 180 |
| 7 | C003773 | Algorithms and Data Structures 1 Veerle Fack Department of Mathematics, Computer Science and Statistics | 6 | 1 | A:2 | 180 |
| 8 | C002178 | Scripting Languages Peter Dawyndt Department of Mathematics, Computer Science and Statistics | 6 | 1 | A:2 | 180 |
| 9 | C001094 | Linear Algebra and Geometry Leo Storme Department of Mathematics: Analysis, Logic and Discrete Mathematics | 6 | 1 | A:2 | 180 |
| 10 | C003774 | Calculus Hendrik Van Maldeghem Department of Mathematics: Algebra and Geometry | 6 | 1 | A:2 | 180 |
| 11 | C003775 | Functional Programming Christophe Scholliers Department of Mathematics, Computer Science and Statistics | 6 | 2 | A:1 | 180 |
| 12 | C003776 | System Programming Filip De Turck Department of Information Technology | 6 | 2 | A:1 | 180 |
| 13 | C003777 | Algorithms and Data Structures 2 Gunnar Brinkmann Department of Mathematics, Computer Science and Statistics | 6 | 2 | A:1 | 180 |
| 14 | E008620 | Communication Networks Wouter Tavernier Department of Information Technology | 6 | 2 | A:1 | 180 |
| 15 | C003778 | Statistics and Probability Christophe Ley Department of Mathematics, Computer Science and Statistics | 6 | 2 | A:1 | 180 |
| 16 | C003779 | Webdevelopment Ruben Verborgh Department of Electronics and Information Systems | 6 | 2 | A:2 | 180 |
| 17 | C003780 | Software Engineering Lab 1 Bart Dhoedt Department of Information Technology | 6 | 2 | A:2 | 180 |
| 18 | C002126 | Multimedia Peter Lambert Department of Electronics and Information Systems | 6 | 2 | A:2 | 180 |
| 19 | E034110 | Computer Architecture Koen De Bosschere Department of Electronics and Information Systems | 6 | 2 | A:2 | 180 |
| 20 | C001521 | Scientific Computing Marnix Van Daele Department of Mathematics, Computer Science and Statistics | 6 | 2 | A:2 | 180 |
| 21 | C003756 | Artificial Intelligence Yvan Saeys Department of Mathematics, Computer Science and Statistics | 6 | 3 | A:1 | 180 |

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| 22 | C003782 | Algorithms and Datastructures 3 Gunnar Brinkmann Department of Mathematics, Computer Science and Statistics | 6 | 3 | A:1 | 180 | |
|--|----------------|---|------------------------|-----|---------|---------|--|
| 23 | E019010 | Operating Systems Koen De Bosschere Department of Electronics and Information Systems | 6 | 3 | A:1 | 180 | |
| 24 | C003783 | Logic Programming Christophe Scholliers Department of Mathematics, Computer Science and Statistics | 6 | 3 | A:2 | 180 | |
| 25 | C003784 | Software Engineering Lab 2 Bart Mesuere Department of Mathematics, Computer Science and Statistics | 6 | 3 | A:2 | 180 | |
| 26 | C003789 | Computational Biology Peter Dawyndt Department of Mathematics, Computer Science and Statistics | 6 | 3 | A:2 | 180 | |
| 27 | C003785 | Automata, Computability and Complexity Leo Storme Department of Mathematics: Analysis, Logic and Discrete Mathematics | 6 | 3 | A:2 | 180 | |
| 2 | Minors | | | | 18 (| credits | |
| Su Sti | bscribe to 1 r | ninor from the following list. Subject to approval by the faculty. ave followed the Minor Education, can enter directly into the education | nal master's programme | | | | |
| 2.1 Minor Security & Parallel Systems 18 credits | | | | | | | |
| Nr | Course | | CRDT Ref | MT1 | Session | Study | |
| 1 | E034140 | Parallel Computer Systems [en] Lieven Eeckhout Department of Electronics and Information Systems | 6 | 3 | A:1 | 180 | |
| 2 | E019400 | Information Security [en] Eric Laermans Department of Information Technology | 6 | 3 | B:2 | 180 | |
| 3 | C003786 | Modelling and Simulation Marnix Van Daele Department of Mathematics, Computer Science and Statistics | 6 | 3 | A:1 | 180 | |
| 2. | 2 Minor E | Electronics & Telecommunication | | | 18 | credits | |
| Nr | Course | | CRDT Ref | MT1 | Session | Study | |
| 1 | C003787 | Introduction to Telecommunications Lieven Eeckhout Department of Electronics and Information Systems | 6 | 3 | A:1 | 180 | |
| 2 | C003806 | Introductory Electronics Bjorn De Sutter Department of Electronics and Information Systems | 6 | 3 | A:2 | 180 | |
| 3 | C003788 | Mathematical Modelling in Engineering Sigiswald Barbier Department of Electronics and Information Systems | 6 | 3 | A:1 | 180 | |
| 2.3 Minor Education 18 credits | | | | | | | |
| Nr | Course | | CRDT Ref | MT1 | Session | Studv | |
| 1 | H002169 | Powerful Learning Environments Bram De Wever Department of Educational Studies | 6 | 3 | A:1 | 180 | |
| 2 | H002175 | Teaching Methodology: Sciences Katrien Strubbe Department of Chemistry | 6 | 3 | A:J | 180 | |
| 3 | H002170 | Reference Internship: Sciences Katrien Strubbe Department of Chemistry | 3 | 3 | A:J | 90 | |
| 4 | C004093 | Mathematical Skills and Know-how | 3 | 3 | A:2 | 85 | |

Koen Thas -- Department of Mathematics: Algebra and Geometry

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 cours name, using the following ISO codes:

| bg: Bulgarian | de: German | es: Spanish | ja: Japanese | pl: Polish | sh: Kroatian/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 in 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 2022-2023 |
|-----------------|---------------------------------|
| b: tri-annually | d: bi-annually, from 2022-2023 |
| | e: tri-annually, from 2022-2023 |

f: annually, from 2023-2024 g: bi-annually, from 2023-2024 h: tri-annually, from 2023-2024 i: annually, from 2024-2025 j: bi-annually, from 2024-2025 k: tri-annually, from 2024-2025