

## Study Programme

60 credits

Academic year 2024-2025

Faculty of Engineering and Architecture

Bachelor of Science in Engineering -- Computer Science Engineering

Language of instruction: Dutch

Programme version 4

**General Courses** 

E001142   Basic Mathematics						
Christophe Leys - Department of Applied Physics   Asilon		42 Basic Mathematics	3			Study 90
Hennie De Schepper - Department of Electronics and Information Systems	2 E020	·	6	1	A:1	180
Mario Pickavet - Department of Information Technology	3 E001		-	1	A:1	180
Joris Thybaut Department of Materials, Textiles and Chemical Engineering	4 E001		4	1	A:1	120
Filip Beunis Department of Electronics and Information Systems	5 E070			1	A:1	120
Bart Dhoedt Department of Information Technology	6 E098		4	1	A:1	120
Hendrik De Bie Department of Electronics and Information Systems  9 E000662 Geometry and Linear Algebra 7 1 A:2 2 Hennic De Schepper Department of Electronics and Information Systems  10 E07080 Chemical Thermodynamics Maarten Sabbe Department of Materials, Textiles and Chemical Engineering  11 E003043 Probability and Statistics 6 1 A:2 1 Jasper De Bock Department of Electronics and Information Systems  12 E066012 Materials Technology Kim Verbeken Department of Materials, Textiles and Chemical Engineering  13 E098512 Sustainability, Entrepreneurship and Ethics 3 1 A:2 5 Filip Beunis Department of Electronics and Information Systems  2 General Courses  3 Crect  3 Crect  3 Crect  3 Crect  4 1 Session Statistics  6 2 A:1 1 Christophe Leys Department of Electronics and Information Systems  2 E020220 Physics II Christophe Leys Department of Applied Physics  3 E001321 Mathematical Analysis III Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations Birger Raa Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en]	7 E015		6	1	A:J	180
Hennie De Schepper Department of Electronics and Information Systems  10 E070080 Chemical Thermodynamics Maarten Sabbe Department of Materials, Textiles and Chemical Engineering  11 E003043 Probability and Statistics 6 1 A:2 1  12 E066012 Materials Technology 4 1 A:2 1  13 E098512 Sustainability, Entrepreneurship and Ethics Filip Beunis Department of Electronics and Information Systems  14 E003043 Probability, Entrepreneurship and Ethics 3 1 A:2 1  15 E098512 Sustainability, Entrepreneurship and Ethics Filip Beunis Department of Electronics and Information Systems  2 General Courses  1 E009320 Electrical Circuits and Networks 6 2 A:1 1  1 E009320 Electrical Circuits and Networks 6 2 A:1 1  1 Christophe Leys Department of Applied Physics  3 E001321 Mathematical Analysis III Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals 6 2 A:1 1  1 Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations Birger Raa Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en]	8 E001		4	1	A:2	120
Maarten Sabbe Department of Materials, Textiles and Chemical Engineering  11 E003043 Probability and Statistics Jasper De Bock Department of Electronics and Information Systems  12 E066012 Materials Technology Kim Verbeken Department of Materials, Textiles and Chemical Engineering  13 E098512 Sustainability, Entrepreneurship and Ethics Filip Beunis Department of Electronics and Information Systems  2 General Courses  3 1 A:2 Signature Courses  3 3 1 A:2 Signature Courses  Trick Course CRDT Ref MT1 Session State Ingre Nys Department of Electronics and Information Systems  2 E020220 Physics II Christophe Leys Department of Applied Physics  3 E001321 Mathematical Analysis III Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations Gert Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en] 6 3 A:1 1	9 E000	· · · · · · · · · · · · · · · · · · ·		1	A:2	210
Jasper De Bock Department of Electronics and Information Systems  12 E066012 Materials Technology Kim Verbeken Department of Materials, Textiles and Chemical Engineering  13 E098512 Sustainability, Entrepreneurship and Ethics 3 1 A:2 Sillip Beunis Department of Electronics and Information Systems  2 General Courses  2 General Courses  Nr Course CRDT Ref MT1 Session Standard Information Systems  3 Crect Inge Nys Department of Electronics and Information Systems  2 E020220 Physics II 6 2 A:1 1 Christophe Leys Department of Applied Physics  3 E001321 Mathematical Analysis III 6 2 A:1 1 Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals 6 2 A:1 1 Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations Birger Raa Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en] 6 3 A:1 1	10 E070	•		1	A:2	90
Kim Verbeken Department of Materials, Textiles and Chemical Engineering  13 E098512 Sustainability, Entrepreneurship and Ethics 3 1 1 A:2 Significant Filip Beunis Department of Electronics and Information Systems  2 General Courses 33 cred  2 General Courses 33 cred  Nr Course CRDT Ref MT1 Session State Inge Nys Department of Electronics and Information Systems  2 E090320 Electrical Circuits and Networks 6 2 A:1 1 Christophe Leys Department of Electronics and Information Systems  2 E020220 Physics II 6 2 A:1 1 Christophe Leys Department of Applied Physics  3 E001321 Mathematical Analysis III 6 2 A:1 1 Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals 6 2 A:1 1 Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations 3 2 A:1 5 Gert De Cooman Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en] 6 3 A:1 1	11 E003		6	1	A:2	180
Filip Beunis Department of Electronics and Information Systems  2 General Courses  Street  CRDT Ref MT1 Session Street  1 E090320 Electrical Circuits and Networks 6 2 A:1 1 Inge Nys Department of Electronics and Information Systems  2 E020220 Physics II 6 2 A:1 1 Christophe Leys Department of Applied Physics  3 E001321 Mathematical Analysis III 6 2 A:1 1 Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals 6 2 A:1 1 Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations 3 2 A:1 5 Birger Raa Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en] 6 3 A:1 1	12 E066			1	A:2	120
Nr Course  1 E090320 Electrical Circuits and Networks 1 Inge Nys Department of Electronics and Information Systems  2 E020220 Physics II Christophe Leys Department of Applied Physics  3 E001321 Mathematical Analysis III Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations Birger Raa Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en]  6 3 A:1 1	13 E098		3	1	A:2	90
1 E090320 Electrical Circuits and Networks lnge Nys Department of Electronics and Information Systems 2 E020220 Physics II 6 2 A:1 1 Christophe Leys Department of Applied Physics 3 E001321 Mathematical Analysis III 6 2 A:1 1 Hendrik De Bie Department of Electronics and Information Systems 4 E005020 Analysis of Systems and Signals 6 2 A:1 1 Gert De Cooman Department of Electronics and Information Systems 5 E076040 Sustainable Business Operations 3 2 A:1 9 Birger Raa Department of Industrial Systems Engineering and Product Design 6 E016350 Artificial Intelligence [en] 6 3 A:1 1	2 Gen	eral Courses			33 (	credits
Electrical Circuits and Networks lnge Nys Department of Electronics and Information Systems  Electronics and Information Systems  Physics II	Mr. Cours		CRDT F	Ref MT1	Sassion	Study
Christophe Leys Department of Applied Physics  3 E001321 Mathematical Analysis III 6 2 A:1 1 Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals 6 2 A:1 1 Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations 3 2 A:1 9 Birger Raa Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en] 6 3 A:1 1		20 Electrical Circuits and Networks				180
Hendrik De Bie Department of Electronics and Information Systems  4 E005020 Analysis of Systems and Signals 6 2 A:1 1 Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations 3 2 A:1 9 Birger Raa Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en] 6 3 A:1 1	2 E020	,	6	2	A:1	180
Gert De Cooman Department of Electronics and Information Systems  5 E076040 Sustainable Business Operations 3 2 A:1 9 Birger Raa Department of Industrial Systems Engineering and Product Design  6 E016350 Artificial Intelligence [en] 6 3 A:1 1	3 E001	•	6	2	A:1	180
Birger Raa Department of Industrial Systems Engineering and Product Design 6 E016350 Artificial Intelligence [en] 6 3 A:1 1	4 E005	· · · · · · · · · · · · · · · · · · ·	6	2	A:1	180
	5 E076	•		2	A:1	90
Aleksandra Pizurica Department of Telecommunications and Information Processing	6 E016	Artificial Intelligence [en] Aleksandra Pizurica Department of Telecommunications and Information	_	3	A:1	180

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Nr	Course		CRDT_	Ref MT1	Session	Study
1	E034110	Computer Architecture Koen De Bosschere Department of Electronics and Information Systems	6	2	A:2	180
2	E017210	Computer Programming Filip De Turck Department of Information Technology	6	2	A:2	180
3	E003110	Applied Probability Sabine Wittevrongel Department of Telecommunications and Information P	3 rocessing	2	A:2	90
4	E001470	Discrete Mathematics II  Joris Walraevens Department of Telecommunications and Information Proc	6 cessing	2	A:2	180
5	E099111	Engineering Project Francis wyffels Department of Electronics and Information Systems	3	2	A:2	90
6	E018310	Algorithms and Data Structures Tom Dhaene Department of Information Technology	6	2	A:2	180
7	E018120	Databases Guy De Tré Department of Telecommunications and Information Processin	3 g	2	A:1	90
8	E008620	Communication Networks Wouter Tavernier Department of Information Technology	6	3	A:1	180
9	E019010	Operating Systems  Koen De Bosschere Department of Electronics and Information Systems	6	3	A:1	180
10	E031110	Digital Electronics Dirk Stroobandt Department of Electronics and Information Systems	6	3	A:1	180
11	E012110	Communication Theory Nele Noels Department of Telecommunications and Information Processing	6	3	A:1	180
12	E017610	Software Engineering Bart Dhoedt Department of Information Technology	6	3	A:2	180
13	E019130	Multimedia Techniques Peter Lambert Department of Electronics and Information Systems	6	3	A:2	180
14	E002022	Formal Systems Modelling for Software Eric Laermans Department of Information Technology	3	3	A:2	90
15	E099010	Cross-Course Project Dirk Stroobandt Department of Electronics and Information Systems	6	3	A:2	180
16	E016020	Automata Theory Sabine Wittevrongel Department of Telecommunications and Information P	6 rocessing	3	A:2	180
17	E076320	The Information Society and ICT Erik Mannens Department of Electronics and Information Systems	3	3	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 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 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 h: tri-annually, from 2026-2027 k: tri-annually, from 2027-2028

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