

Faculty of Sciences

Exchange Programme in Computer Science (master's level)

Language of instruction: English

Programme version 8

## 1 General Courses

The exchange programme contains a preferred list of English courses taught at UGent of the Master of Science in Computer Science. Most of the courses in the main programme are taught in Dutch, but many of these can be followed based on e.g. English course material and guidance. For courses taught in Dutch you should contact the lecturer of the course to check whether it can be followed.

Tips for completing your Learning Agreement:

- Please check the [departmental rules](#) for incoming students.
- A minimum number of 20 ECTS per semester (or 40 ECTS per year) should be chosen.
- Short or long term (up to 1 year) research projects can be chosen. Students should have an agreement with a promoter at the faculty of Sciences (UGent) prior to sending their learning agreement, and include the letter of acceptance with their application.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003758 Machine Learning Yvan Saeys -- Department of Applied Mathematics and Computer Science	6			A:1	180
2	E017930 Parallel and Distributed Software Systems Filip De Turck -- Department of Information Technology	6			A:1	180
3	C000627 Computability and Complexity Giovanni Solda -- Department of Mathematics: Analysis, Logic and Discrete Mathematics	6			A:1	165
4	E019170 Internet of Things Jeroen Hoebeke -- Department of Information Technology	6			A:1	180
5	E019370 Robotics Tony Belpaeme -- Department of Electronics and Information Systems	6			A:1	180
6	C003711 Computational Challenges in Bioinformatics Peter Dawyndt -- Department of Applied Mathematics and Computer Science	6			A:2	180
7	E003600 Information Theory Heidi Steendam -- Department of Telecommunications and Information Processing	6			B:2	180
8	E017920 Design of Multimedia Applications Glenn Van Wallendael -- Department of Electronics and Information Systems	6			A:2	180
9	E010220 Speech Processing Kris Demuyne -- Department of Electronics and Information Systems	4			A:2	120
10	E034150 Blockchain Technologies and Applications Bjorn De Sutter -- Department of Electronics and Information Systems	3			A:1	90
11	F000918 Deep Learning Seppe vanden Broucke -- Department of Business Informatics and Operations Management	6			A:2	180
12	E061341 Natural Language Processing Chris Develder -- Department of Information Technology	6			A:2	180
13	E031251 Design Methodology for FPGAs Dirk Stroobandt -- Department of Electronics and Information Systems	6			A:1	180
14	E016712 Computer Graphics Danilo Babin -- Department of Telecommunications and Information Processing	6			A:2	180
15	E004720 Network Modelling and Design Mario Pickavet -- Department of Information Technology	4			B:2	120
16	E018520 Compilers Bjorn De Sutter -- Department of Electronics and Information Systems	6			A:2	180
17	C004413 Causal Machine Learning Stijn Vansteelandt -- Department of Applied Mathematics and Computer Science	5			A:2	150

18	E031800	AI Research Seminar Tijl De Bie -- Department of Electronics and Information Systems	3	A:1	90
19	E061350	Deep Generative Models Bart Dhoedt -- Department of Information Technology	4	A:2	120
20	E034500	Sustainable Computing Lieven Eeckhout -- Department of Electronics and Information Systems	3	A:2	90
21	E061341	Natural Language Processing Chris Develder -- Department of Information Technology	6	A:2	180
22	E017942	Software Hacking and Protection Bjorn De Sutter -- Department of Electronics and Information Systems	6	A:1	180
23	E017950	Secure Software and Systems Bart Coppens -- Department of Electronics and Information Systems	6	A:2	180
24	E008710	Network Security Bruno Volckaert -- Department of Information Technology	6	A:1	180
25	E018130	NoSQL Databases Antoon Bronselaer -- Department of Telecommunications and Information Processing	3	A:2	90
26	E018700	Data Quality Antoon Bronselaer -- Department of Telecommunications and Information Processing	3	A:1	90
27	E017310	Cloud Storage and Computing Bruno Volckaert -- Department of Information Technology	4	A:2	120
28	C003242	Research Project	0	A:1, C:J, B:2	0

#### 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