Study Programme

Academic year 2023-2024

Faculty of Sciences
Exchange Programme in Mathematics (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 Mathematics.
Most of the courses in the main programme are taught in Dutch; in such cases, English course material and guidance can sometimes be provided. Internships are not possible for incoming mathematics Erasmus students.
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 from the mathematics programme.
- 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	C004119	Capita Selecta in Analysis	6			A:2[a]	180
		Michael Ruzhansky -- Department of Mathematics: Analysis, Logic and Discrete Mathematics					
2	C003017	Capita Selecta in Algebra	6			A:2[a]	165
		Tom De Medts -- Department of Mathematics: Algebra and Geometry					
3	C003688	Capita Selecta in Statistics	6			(A:2)[d]	165
		Stijn Vansteelandt -- Department of Mathematics, Computer Science and Statistics					
4	C002676	Continuum Mechanics	6			A:2	180
		Geert Verdoolaege -- Department of Applied Physics					
5	C002678	Statistical Inference	6			A:2	165
		Oliver Dukes -- Department of Mathematics, Computer Science and Statistics					
6	C002679	Survival Analysis	6			A:2	165
		Els Goetghebeur -- Department of Mathematics, Computer Science and Statistics					
7	C004413	Causal Machine Learning	6			B:2	180
		Stijn Vansteelandt -- Department of Mathematics, Computer Science and Statistics					
8	C003011	Mathematical Logic II [en, nl]	6			A:1	165
		Andreas Weiermann -- Department of Mathematics: Analysis, Logic and Discrete Mathematics					
9	C003668	Quantum Computing	6			A:2	180
		Frank Verstraete -- Department of Physics and Astronomy					
10	C003758	Machine Learning	6			A:1	180
		Yvan Saeys -- Department of Mathematics, Computer Science and Statistics					
11	C000627	Computability and Complexity	6			A:1	165
		Giovanni Solda -- Department of Mathematics: Analysis, Logic and Discrete Mathematics					
12	C004109	Functional Analysis	6			A:2	180
		Jasson Vindas Diaz -- Department of Mathematics: Analysis, Logic and Discrete Mathematics					
13	C004071	Strongly Correlated Quantum Systems	6			A:2	180
		Jutho Haegeman -- Department of Physics and Astronomy					
14	C003080	Programming	5	UKV		C:1	150
		Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics					
15	C002337	Finite Geometry	6			A:2[a]	165
		Bart De Bruyn -- Department of Mathematics: Algebra and Geometry					
16	C003013	Linear Algebraic Groups	6			A:2	165
		Tom De Medts -- Department of Mathematics: Algebra and Geometry					
17	C004109	Functional Analysis	6			A:2	180
		Jasson Vindas Diaz -- Department of Mathematics: Analysis, Logic and Discrete Mathematics					
18	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 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 2024-2025	f: annually, from 2025-2026	i: annually, from 2026-2027
b: tri-annually	d: bi-annually, from 2024-2025	g: bi-annually, from 2025-2026	j: bi-annually, from 2026-2027
	e: tri-annually, from 2024-2025	h: tri-annually, from 2025-2026	k: tri-annually, from 2026-2027