

Study Programme

Academic year 2025-2026

Faculty of Sciences, Faculty of Psychology and Educational Sciences Master of Science in Teaching in Science and Technology -- Computer Science

Language of instruction: Dutch Programme version 3

1 Domain Component		54 credits
For courses without indication of the standard learning path, the student can choose vyear, depending on the rest of his/her curriculum.	whether to take the course in the f	
1.1 General Courses		24 credits
Nr Course	CRDT Ref MT1	Session Study
1 E017930 Parallel and Distributed Software Systems [en] Jan Fostier Department of Information Technology	6	A:1 180
2 C004073 Computer Graphics Peter Lambert Department of Electronics and Information Systems	6	A:1 180
3 E019400 Information Security [en] Eric Laermans Department of Information Technology	6	B:2 180
4 C004072 Software Engineering Lab 3 Sofie Van Gassen Department of Mathematics, Computer Science and Statistics	6	A:2 180
1.2 Elective Courses		30 credits
Subscribe to 30 credit units from no less than 1 and no more than 2 modules from the	e following list. Subject to approval	l by the faculty.
1.2.1 Elective Course List		
Subscribe to no less than 24 and no more than 30 credit units from the following list.		
Nr Course	CRDT Ref MT1	Session Study
1 C003241 Fundaments of Programming Languages Christophe Scholliers Department of Mathematics, Computer Science and Statistics	6	A:1 165
2 C003758 Machine Learning [en] Yvan Saeys Department of Mathematics, Computer Science and Statistics	6	A:1 180
3 E018520 Compilers [en]	6	A:2 180

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Teaching Component

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C003349 Discrete Algorithms

C004041 Data Visualization

C004074 Big Data Science

C004075 Internship

C000957 Intellectual Property Rights

E034140 Parallel Computer Systems [en]

1.2.2 Elective Courses Flemish Community

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6

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8

9

A:2

A:2

A:2

A:2

A:1

A:J

165

90

90

165

180

180

Subscribe to no more than 6 credit units to be chosen from the study programmes of UGent including the Ghent University elective

Bjorn De Sutter -- Department of Electronics and Information Systems

Veerle Fack -- Department of Mathematics, Computer Science and Statistics

Bart Mesuere -- Department of Mathematics, Computer Science and Statistics

Bart Mesuere -- Department of Mathematics, Computer Science and Statistics

Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics

Lieven Eeckhout -- Department of Electronics and Information Systems

courses or study programmes of other higher education of the Flemish Community.

Hendrik Vanhees -- Department of Interdisciplinary Study of Law, Private Law and Business Law

entering into an internship, or at least take the teaching methodology course simultaneously.

2.1 Programme Pathway Theoretical Education

12 credits

r Course	CRDT	Ref	MT1	Session	Studv
H002197 The Teacher within School and Society Melissa Tuytens Department of Educational Studies	4	Rei		A:1	120
H002196 Classroom Management and Reflection Tijs Rotsaert Department of Educational Studies	4			A:2	120
H002198 Psychology of Adolescence Wim Beyers Department of Developmental, Personality and Social Psychology	4			A:1	120
.2 Programme Pathway Teaching Methodology				6	credits
r Course	CRDT	Ref	MT1	Session	Study
H002225 Teaching Methodology: Computer Science Kris Coolsaet Department of Mathematics, Computer Science and Statistics	6			A:J	180
.3 Programme Pathway Internship				12	credits
ubscribe to 12 credit units from the following list, with 4 credit units from the courses with reference a, if no additional Teaching Methodology C Courses.	ourse is tal	ken in Mo	dule 2 of the	Elective	
4 credit units from the courses with reference b, if an additional Teaching Methodology C Courses	ourse is tal	ken in Mo	dule 2 of the	Elective	
r Course	CRDT	Ref	MT1	Session	Study
H002299 Internship A: STEM Katrien Strubbe Department of Chemistry	4			A:J	100
H002318 Internship B: Computer Science Kris Coolsaet Department of Mathematics, Computer Science and Statistics	4			A:J	100
H002340 Internship C: Computer Science Kris Coolsaet Department of Mathematics, Computer Science and Statistics	4	а		A:J	100
H002336 Internship C: Mathematics Hendrik Van Maldeghem Department of Mathematics, Computer Science and Statistics	4	b		A:J	100
.4 Elective Courses				6	credits
ubscribe to 6 credit units from one or different modules from the following list. Subject to a	approval by	the facult	у.		
4.1 Module 1: List of Elective Courses ne courses with reference b can only be chosen if the course with reference a has been p		the facult	y . MT1	Session	Study
4.1 Module 1: List of Elective Courses ne courses with reference b can only be chosen if the course with reference a has been p	assed.		y. MT1	Session A:2	Study 120
 4.1 Module 1: List of Elective Courses a courses with reference b can only be chosen if the course with reference a has been per Course H001608 Movement and Sports: Now and Later 	assed. CRDT	Ref	y. MT1		C tu u j
 4.1 Module 1: List of Elective Courses a courses with reference b can only be chosen if the course with reference a has been per Course H001608 Movement and Sports: Now and Later Veerle Segers Department of Movement and Sports Sciences H001838 Culture, Media and Education 	assed. CRDT 4 4	Ref	у . МТ1	A:2	120
 4.1 Module 1: List of Elective Courses a courses with reference b can only be chosen if the course with reference a has been per Course H001608 Movement and Sports: Now and Later Veerle Segers Department of Movement and Sports Sciences H001838 Culture, Media and Education Kris Rutten Department of Educational Studies H002128 Methods to Facilitate Socratic Group Discussions in the Education Context 	assed. CRDT 4 4	Ref	у . МТ1	A:2 A:2	120 120
 4.1 Module 1: List of Elective Courses a courses with reference b can only be chosen if the course with reference a has been process H001608 Movement and Sports: Now and Later Veerle Segers Department of Movement and Sports Sciences H001838 Culture, Media and Education Kris Rutten Department of Educational Studies H002128 Methods to Facilitate Socratic Group Discussions in the Education Context Veerle Provoost Department of Philosophy and Moral Sciences H002213 Motivational Psychology 	eassed. CRDT 4 4 nal 4 5	Ref	y. MT1	A:2 A:2 A:2	120 120 120
 A.1 Module 1: List of Elective Courses be courses with reference b can only be chosen if the course with reference a has been per Course H001608 Movement and Sports: Now and Later Veerle Segers Department of Movement and Sports Sciences H001838 Culture, Media and Education Kris Rutten Department of Educational Studies H002128 Methods to Facilitate Socratic Group Discussions in the Education Context Veerle Provost Department of Philosophy and Moral Sciences H002213 Motivational Psychology Sofie Morbée Department of Developmental, Personality and Social Psychology H002344 Linguistic Proficiency in Content and Language Integrated Learnin Dutch 	assed. CRDT 4 4 anal 4 5 ang: 3	Ref UKV	MT1	A:2 A:2 A:2 A:1	120 120 120 120
 4.1 Module 1: List of Elective Courses be courses with reference b can only be chosen if the course with reference a has been per Course H001608 Movement and Sports: Now and Later Veerle Segers Department of Movement and Sports Sciences H001838 Culture, Media and Education Kris Rutten Department of Educational Studies H002128 Methods to Facilitate Socratic Group Discussions in the Education Context Veerle Provoost Department of Philosophy and Moral Sciences H002213 Motivational Psychology Sofie Morbée Department of Developmental, Personality and Social Psychology H002344 Linguistic Proficiency in Content and Language Integrated Learnin Dutch Bart Devgers Department of Translation, Interpreting and Communication H002247 Linguistic Proficiency in Content and Language Integrated Learnin English [en] 	nassed. CRDT 4 4 nal 4 5 ng: 3 ng: 3	Ref UKV	MT1	A:2 A:2 A:2 A:1 A:2	120 120 120 150 90
 4.1 Module 1: List of Elective Courses the courses with reference b can only be chosen if the course with reference a has been precourse H001608 Movement and Sports: Now and Later Veerle Segers Department of Movement and Sports Sciences H001838 Culture, Media and Education Kris Rutten Department of Educational Studies H002128 Methods to Facilitate Socratic Group Discussions in the Education Context Veerle Provoost Department of Philosophy and Moral Sciences H002213 Motivational Psychology Sofie Morbée Department of Developmental, Personality and Social Psychology H002344 Linguistic Proficiency in Content and Language Integrated Learnin Dutch Bart Deygers Department of Translation, Interpreting and Communication H002247 Linguistic Proficiency in Content and Language Integrated Learnin English [en] June Eyckmans Department of Translation, Interpreting and Communication H002248 Linguistic Proficiency in Content and Language Integrated Learnin English [en] June Eyckmans Department of Translation, Interpreting and Communication H002248 Linguistic Proficiency in Content and Language Integrated Learnin French [fr] 	eassed. CRDT 4 4 nal 4 5 ng: 3 ng: 3 ng: 3	Ref UKV b	MT1 2 2	A:2 A:2 A:2 A:1 A:2 A:2	120 120 120 150 90 90
 4.1 Module 1: List of Elective Courses the courses with reference b can only be chosen if the course with reference a has been per Course H001608 Movement and Sports: Now and Later Veerle Segers Department of Movement and Sports Sciences H001838 Culture, Media and Education Kris Rutten Department of Educational Studies H002128 Methods to Facilitate Socratic Group Discussions in the Education Context Veerle Provoost Department of Philosophy and Moral Sciences H002213 Motivational Psychology Sofie Morbée Department of Developmental, Personality and Social Psychology H002344 Linguistic Proficiency in Content and Language Integrated Learnin Dutch Bart Devgers Department of Translation, Interpreting and Communication H002247 Linguistic Proficiency in Content and Language Integrated Learnin English [en] June Eyckmans Department of Translation, Interpreting and Communication H002248 Linguistic Proficiency in Content and Language Integrated Learnin English [en] June Eyckmans Department of Linguistics H002249 Linguistic Proficiency in Content and Language Integrated Learnin German [de] 	Anal 4 Anal 4 Anal 4 Anal 3 Ang: 3 Ang: 3 Ang: 3	Ref UKV b b	MT1 2 2 2 2	A:2 A:2 A:2 A:1 A:2 A:2 A:2	120 120 120 150 90 90

2.4.2 Module 2: Additional Course Teaching Methodology

Taking an additional Teaching Methodology Course implies taking the corresponding Internship in the Programme Pathway Internship. Students who are able to demonstrate that they have acquired at least 30 academic credits in another specific domain (60 credits if it concerns a language), can submit a request to the Curriculum Manager for the Master of Education to take the corresponding teaching methodology course. If the Curriculum Manager agrees, the Programme Pathway Internship needs to be revised allowing a student to follow an "Internship C" in this additional teaching methodology. 180 H002226 Teaching Methodology: Mathematics I 6 A:J 1 Hendrik Van Maldeghem -- Department of Mathematics, Computer Science and Statistics 2.4.3 Module 3: Additional Internship H002332 Short Additional Internship 3 A:J 80 1 Katrien Strubbe -- Department of Chemistry 2 H002333 Extended Additonal Internship 6 A:J 160

Katrien Strubbe -- Department of Chemistry

2.4.4 Module 4: an Elective Course related to Education

Subscribe to a course of no less than 6 credit units, related to education, and lectured at a university belonging to the Flemish Community (see also: Enlight Elective Courses), subject to approval by the faculty.

3 Master's Dissertation			30 (credits
Nr Course	CRDT Ref	MT1	Session	Study
1 C004108 Master's Dissertation	30	2	A:J	825

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:

du. Bahish on. English h. haidh ho. Norwegian fu. rubbiah ov. owedish	bg: Bulgarian cs: Czech da: Danish	de: German el: Greek en: English	es: Spanish fr: French it: Italian	ja: Japanese nl: Dutch no: Norwegian	pl: Polish pt: Portuguese ru: Russian	sh: Kroatian/Serbian sl: Slovene sv: Swedish	zh: Chinese
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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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	g: bi-annually, from 2027-2028	j: bi-annually, from 2028-2029
	e: tri-annually, from 2026-2027	h: tri-annually, from 2027-2028	k: tri-annually, from 2028-2029