**UNIVERSITY OF AMSTERDAM**

**FACULTY OF SCIENCE**

# TEACHING AND EXAMINATION REGULATIONS

**PART B: programme-specific section**

**Academic year 2020-2021**

# MASTER'S PROGRAMME IN LOGIC

Contents

## Chapter 1. General Provisions

*Article B-1.1 - Definitions*
Track: Specialisation area with prescribed components.

*Article B-1.2 - Study programme information*
1. The Master's programme in Logic, CROHO number 60226, is offered on a full-time basis and the language of instruction is English. This means that the Code of Conduct for Foreign Languages at the UvA applies for this programme (see Code of Conduct Governing Foreign Languages at the University of Amsterdam 2000 at the website: https://www.uva.nl/en/about-the-uva/policy-and-regulations/rules-and-regulations/teaching/teaching.html).
2. The MSc Logic is a two-year programme with a total study load of 120 EC.
3. Within the programme the following tracks are offered:
    1. Logic and Computation (L&C)
    2. Logic and Language (L&L)
    3. Logic and Mathematics (L&M)
    4. Logic and Philosophy (L&P)

*Article B-1.3 - Enrolment*
The programme starts at the beginning of the first semester (September). Re-enrolment at the beginning of the second semester (February) is possible.

## Chapter 2. Programme objectives and exit qualifications

*Article B-2.1 - Programme objectives*
The aim of the Master of Science in Logic programme is to create an international, interdisciplinary and research-oriented learning environment in which students are educated as researchers in the area of Logic, Language and Information.

*Article B-2.2 - Exit qualifications*
On the basis of the acquired knowledge, understanding and skills, students that have successfully completed the programme are able to carry out research in the interdisciplinary area of Logic, Language and Information, within academia (e.g., continuing their education with doctoral studies) or outside the academia.
1. The insight of a graduate of the MSc Logic is based on a solid foundation in the most important aspects of logic, and its applications in computer science, linguistics, philosophy and mathematics; and a specialised knowledge at an advanced level of one or more of the following research areas: Logic & Computation, Logic & Language, Logic & Mathematics, Logic & Philosophy. More specifically, a graduate of the MSc Logic is able to
    - explain and apply classical results and proof methods used in mathematical logic; apply proof-theoretic and model-theoretic techniques to prove theorems; explain applications of Logic in Philosophy, Mathematics, Computer Science, and Linguistics;
    - critically evaluate, apply and integrate advanced results and theories in their field of specialization (Computation, Language, Mathematics or Philosophy) based on an awareness of its research traditions and conventions;
    - analyze and model complex structures using formal methods, which includes at least one of the following: develop predictive formal models of complex (linguistic) phenomena; study formal properties of mathematical structures; develop formal theories for philosophical issues; develop algorithms, information-theoretic, computational and probabilistic models.
2. The acquired skills lie in the area of research and communication. More specifically, a graduate of the MSc Logic is able to
    - formulate research questions placed in the correct scientific context and address these in a research plan;
    - make a contribution to the theories and research methods in the area of expertise;

- collaborate with others in a multidisciplinary team;
- deliver and defend presentations of their own work, both orally and in writing, following the conventions of their field of specialization.

3. Finally, a graduate possesses
   - the intellectual mobility to transcend traditional boundaries between the academic disciplines that border their specialisation area.

## Chapter 3. Further admission requirements

*Article B-3.1 - Admission requirements*

1. Students have to apply for admission to the Master's Programme in Logic. For a detailed description of the application procedure and of the admission requirements, see https://msclogic.illc.uva.nl/application.
2. Applicants must have at least a Bachelor's or equivalent degree in one of the following fields:
   - computer science
   - artificial intelligence
   - mathematics
   - philosophy
   - linguistics

   Applicants with a first degree in another field may also be considered, provided they have an appropriate formal background. The final decision lies with the Admissions Board of the Master's Programme in Logic.
3. All applicants must have a solid background in modern formal logic, affinity with mathematical and formal thinking and sufficient familiarity with mathematical proofs. In practice, this means that incoming students are expected to have had an introduction to mathematical logic up to and including the proof of the completeness theorem for first-order logic and have taken courses requiring mathematical or formal reasoning.
4. In addition, all applicants must display academic excellence, witnessed, e.g., by a very strong academic record or experience in undergraduate research.
5. In addition, all applicants must meet the English requirements (cf. Article 3.5).

*Article B-3.2 - Pre-Master's programme*

Not applicable.

*Article B-3.3 - Limited programme capacity*

Not applicable.

*Article B-3.4 - Final deadline for registration*

1. A request for admission to the Master's programme must be received before 15 March in the case of EU/EEA/Swiss students (including Dutch students) and before 15 January in the case of non-EU/EEA.
2. The Admissions Board may consider a request submitted after this closing date.

*Article B-3.5 - English language requirements*

1. The proficiency requirement in English as the language of instruction can be met by the successful completion of one of the following examinations:
   a. IELTS: 6,5, at least 6 on each sub-score (listening/reading/writing/speaking);
   b. TOEFL paper-based: 580;
   c. TOEFL Internet-based test: 92, at least 22 on each sub-score (listening/reading/writing/speaking);

   The foregoing examination must have been taken within two years before the student's enrolment.
   d. C1 Advanced (CAE): minimal result 170
   e. C2 Proficiency (CPE): minimal result 170

Please note that the TOEFL-code for the University of Amsterdam is 9011.

An exemption from the English examination referred to in article 3.5.1 shall be granted to students who:

f. Had previous education in secondary or tertiary education in one of the following English-speaking countries: Australia, Canada (English), New Zealand, Ireland, the United Kingdom or the United States of America;
g. hold an English-language 'international baccalaureate' diploma;
h. hold a Bachelor's degree from a Dutch university;
i. passed the final examination for the subject of English as part of one of the following diplomas: VWO, Belgian ASO (Flemish).

## Chapter 4. Curriculum structure

*Article B-4.1 - Tracks*

Every student has to select one of the following tracks:

1. Logic & Computation,
2. Logic & Language,
3. Logic & Mathematics, or
4. Logic & Philosophy.

*Article B-4.2 - Composition of programme*

1. The programme of the MSc Logic consists of the following components:
    1. Core components (at least 72 EC)
        a. Compulsory components
        b. Track components
        c. Research projects
        d. Restricted-choice electives
    2. Thesis Master of Logic (30 EC)
    3. Free-choice electives
2. In order to graduate, a student needs to have at least 120 EC in total, of which 72 EC have to be core components, and has to satisfy the requirements of at least one track.
3. The curriculum of the student used for graduation must not have components that are similar in content. In case of doubt, the Examinations Board decides whether components are too similar to be part of the curriculum.
4. A complete list of components provided by the Master's programme can be found in Appendix 1.
5. Every component will be examined. Within the MSc Logic different types of examination are used: classroom exam, take-home exam, term paper, oral exam, homework, presentation and various combinations of these. The course catalogue lists the examinations types per component.
6. Within the MSc Logic different types of teaching methods are used. The course catalogue lists the teaching methods per component.

*Article B-4.3 - Core components (at least 72 EC)*

1. Compulsory components.
    a. Logic, Language and Computation (3 EC)
    b. Mathematical Proof Methods for Logic (6 EC)
2. The Examinations Board can grant an exemption from the obligation to take the course Mathematical Proof Methods for Logic. Students exempted from Mathematical Proof Methods for Logic are not allowed to take this course for credit.

3. Track components. Track components are compulsory courses determined by the student's area of specialisation:

| **Track Logic & Computation** | **EC** |
|---|---|
| Computational Complexity | 6 |
| Information Theory | 6 |

| **Track Logic & Language** | **EC** |
|---|---|
| Meaning, Reference and Modality | 6 |
| Structures for Semantics | 6 |

| **Track Logic & Mathematics** | **EC** |
|---|---|
| Set Theory | 8 |
| Model Theory | 6 |
| Proof Theory | 6 |

| **Track Logic and Philosophy** | **EC** |
|---|---|
| Meaning, Reference and Modality | 6 |
| Philosophical Logic | 6 |

4. Students in the tracks L&C and L&M who lack knowledge in the mathematical theory of modal logic are additionally required to take the course *Inleiding Modale Logica / Introduction to Modal Logic* (6 EC). The Examinations Board decides for all students in the tracks L&C and L&M whether they are required to take the course Inleiding Modale Logica / Introduction to Modal Logic (6 EC). Students who are not required to take the course can take it as an Elective course.

5. Research Projects. Every student must have at least 6 and at most 24 EC in research projects. Projects can either be done in period c of the first, second or third semester or as individual research projects at any time. Credits for any learning activity that is not taught in the usual style of courses and/or that is not part of a regular Master's programme of a university, like for example, internships and summer schools, are counted towards the maximum of 24 EC in research projects.

6. Restricted-choice electives. Students can choose restricted-choice elective components from the list below.

| **List of Restricted-choice electives** | **EC** |
|---|---|
| Advanced Neural and Cognitive Modelling | 6 |
| Advanced Topics in Computational Semantics | 6 |
| Advanced Topics in the Philosophy of Language | 6 |
| Basic Probability: Programming | 3 |
| Basic Probability: Theory | 3 |
| Capita Selecta: Set Theory | 6 |
| Category Theory | 8 |
| Causal Inference: Philosophical Theory and Modern Practice | 6 |
| Cognition and Language Development | 6 |
| Cognitive Models of Language and Music (not taught in 2020-2021) | 6 |
| Computability and Interaction | 6 |
| Computational Complexity | 6 |
| Computational Dialogue Modelling | 6 |
| Computational Social Choice | 6 |
| Concurrency Theory | 6 |
| Deep Learning for Natural Language Technology | 6 |
| Distributed Algorithms (VU) | 6 |
| Dynamic Epistemic Logic | 6 |

| | |
|---|---|
| Epistemic Paradoxes and Philosophical Puzzles | 6 |
| Foundations of Neural and Cognitive Modelling | 6 |
| Game Theory | 6 |
| History of Logic | 6 |
| Homotopy Type Theory (not taught in 2020-2021) | 6 |
| How Music Works: Music Cognition | 6 |
| Information Theory | 6 |
| Inleiding Modale Logica (Introduction to Modal Logic) | 6 |
| Introduction to the Philosophy of Language | 6 |
| Kant, Logic and AI | 6 |
| Knowledge Representation and Reasoning | 6 |
| Kolmogorov Complexity | 6 |
| Lambda Calculus | 6 |
| Logic and Conversation | 6 |
| Logic and Philosophy | 6 |
| Logic, Games and Automata | 6 |
| Logical Verification (VU) | 6 |
| Machine Learning Theory | 8 |
| Mathematical Structures in Logic | 6 |
| Meaning, Reference and Modality | 6 |
| Model Theory | 6 |
| Natural Language Processing 1 | 6 |
| Natural Language Processing 2 | 6 |
| Ontology: Philosophical Perspectives (TBC) | 6 |
| Philosophical Logic | 6 |
| Philosophy of Cognition | 6 |
| Philosophy of Mathematics | 6 |
| Philosophy of Techno Science | 6 |
| Proof Theory | 6 |
| Protocol Validation (VU) | 6 |
| Quantum Computing | 8 |
| Quantum Information Theory | 8 |
| Radical Interpretation, Hermeneutics, Practice Theory | 6 |
| Rationality, Cognition and Reasoning | 6 |
| Recursion Theory | 6 |
| Rudiments of Axiomatic Set Theory | 3 |
| Semantics and Cognition (not taught in 2020-2021) | 6 |
| Semantics and Philosophy (TBC) | 6 |
| Seminar Mathematical Logic | 3 |
| Set Theory | 8 |
| Structures for Semantics | 6 |
| Syntax and Semantics 1 | 6 |
| Syntax and Semantics 2 | 6 |
| Term Rewriting Systems (VU) | 6 |
| Time | 6 |
| Topics in Modal Logic | 6 |
| Topology, Logic and Learning | 6 |
| Topos Theory (UU) | 8 |
| Wittgenstein on Ethics and Aestethics (not taught in 2020-2021) | 6 |

7. Set Theory is a semester-long MasterMath course, worth 8 EC. Rudiments of Axiomatic Set Theory consists of the first seven weeks of this course, worth 3 EC. Only one of the two courses Set Theory or Rudiments of Axiomatic Set Theory can be taken for credit.

*Article B-4.4 – Research colloquia/seminars and the Thesis Master of Logic*

1. As part of their research training students are expected to regularly attend local research colloquia and to participate in seminars such as: Logic Tea; COOL seminar for Logic Students; DIP Colloquium; Colloquium on Mathematical Logic; Computational Social Choice Seminar; Algebra|Coalgebra Seminar; Computational Linguistics Seminar; Theoretical Computer Science Seminar; Seminar on Logic and Interactive Rationality;
   Express Seminar; Cognition@ILLC. The list of ILLC regular events is available here: http://www.illc.uva.nl/NewsandEvents/Events/Regular/
2. The Thesis Master of Logic comprises 30 EC. The thesis is a report on a substantial piece of scientific work, usually including a significant amount of original research that clearly demonstrates the student's capacity to independently conduct research in an interdisciplinary environment.
3. Before their Thesis defence, students are required to (i) present their ongoing thesis project during a plenary MoL thesis presentation event or (ii) discuss their project once with an ILLC staff member outside of their supervisory team. Students are advised to do both.

*Article B-4.5 – Free-choice electives*

1. In addition, students may choose components from other Master's programmes. There is no limit on the number of free-choice electives that a student can take, as long as the curriculum meets the other requirements of Articles 4.3 and 4.4 (in particular, the curriculum must have at least 72 EC in core components).
2. Taking a course as free-choice elective does not require any prior permission from the Examinations Board.

*Article B-4.6 - Practical exercise*

Not applicable.

*Article B-4.7- Sequence of examinations*

1. The student may participate in examinations of a component only after the student has shown that he/she has the necessary prerequisite knowledge. To that end, a student must have passed the components stated in the course catalogue (per component), which are considered to be prerequisite knowledge for that course or component.
2. The assessment of projects in which several students have worked on an assignment will only be made at the end of the relevant teaching period. In principle, an individual resit is not possible.
3. If a student feels that on account of exceptional circumstances the assessment, referred to in paragraph 2, is not a realistic assessment of his/her effort, knowledge, skills or insights, the student may request the Examinations Board to nevertheless permit an individual test and/or resit.

*Article B-4.8 - Participation in practical exercise and study group sessions*

Not applicable.

*Article B-4.9 - Maximum exemption*

1. A student may apply to the Examinations Board for the approval of transfer credits. Details are regulated in the document Rules and Guidelines of the Examinations Board MSc Logic, available on the ILLC website.
2. At most 36 EC of the student's programme can consist of such transfer credits.
3. A student may also apply to the Examinations Board for exemption from the requirement to take a track-specific compulsory component if they already possess the knowledge taught in that component. Such requests will only be granted in exceptional circumstances. If such a request is granted, the student must take additional restricted-choice electives to obtain a sufficient number of EC for graduation.

4. Components successfully completed elsewhere during the programme may supplement the student's examination programme, subject to permission from the Examinations Board.

*Article B-4.10 - Validity period of examinations*
The validity period of interim examinations and exemptions from interim examinations is limited, as described in part A, article 4.8.

*Article B-4.11 - Degree*
Students who have successfully completed their Master's examination are awarded a Master of Science degree. The degree awarded is stated on the diploma.

*Article B-4.12 - Graduation procedure*
1. To be able to graduate, the student's overall study programme has to be approved by the Examinations Board. To request approval a student should submit a Thesis Project and an Academic Plan in DataNose. Students can only do so when they have finished all coursework except for at most 18 EC.
2. The student cannot defend his/her Thesis before all other components from his/her Academic Plan are passed and all grades are registered.
3. The official graduation procedure of the MSc Logic is described in the document Rules and Guidelines of the Examinations Board MSc Logic available at the ILLC website: http://www.illc.uva.nl/MScLogic/

*Article B-4.13 - Double Master's Programme*
In case a student combines two Master programmes and their components, the following requirements must be met in order to be awarded two Master's degrees:
1. The total programme of the candidate should amount to (i) at least 180 EC credits, if the second Master is a two-year programme with a study load of 120 EC; or (ii) at least 150 EC, if the second Master is a one-year programme with a study load of 60 EC.
2. The candidate's work for the programme (lectures, research work, etc.), must be of such a standard that all the compulsory requirements of each of the two programmes have been met.
3. The candidate must have conducted separate research work for both Master's degrees. This may consist of two separate Master theses with supervisors from the respective study programmes.
4. The Examinations Boards of both study programmes must approve the student's double Master's programme before the student commences the double Master's programme.
5. The Examinations Board will require a student to satisfy the same conditions as regular students. In particular, they must write a relevant Master thesis and choose components from the MSc Logic programme adding up to a total of at least 102 EC (see also Article 4.4 on restricted-choice electives ).

*Article B-4.14 - Free curriculum*
1. Subject to certain conditions, the student has the option of compiling a curriculum of his/her own choice which deviates from the curricula prescribed by the programme.
2. The concrete details of such a curriculum must be approved beforehand by the most appropriate Examinations Board.
3. The free curriculum is put together by the student from the units of study offered by the University of Amsterdam and must at least have the size, breadth and depth of a regular Master's programme and must match the exit qualifications that apply for the Master's programme in Logic.
4. At least 60 EC must be obtained from the regular curriculum.

## Chapter 5. Academic student counselling

*Article B-5.1 - Academic student counselling*
The academic student counselling for this programme consists of: faculty study advisor, Master of Logic advisor (Tanja Kassenaar), academic mentors and student mentors.
The list of current academic mentors is available here: https://msclogic.illc.uva.nl/people/mentors/.
The list of student mentors is available here: https://msclogic.illc.uva.nl/current-students/facilities/facilities/#student-mentors

## Chapter 6. Teaching evaluation

*Article B-6.1 - Teaching evaluation*
Evaluation of the curriculum and/or individual courses and their place in the curriculum takes place through different means. These may comprise:

- discussion panels of members of the Programme Committee with students and/or professors, in order to evaluate individual courses and/or (aspects of) the curriculum;
- written student evaluations of individual courses, collected through students and/or the professor of that course and/or through other means provided by the University (such as UvA-Q).

All evaluation reports are discussed within the Programme Committee. The Programme Committee advises the programme director on the quality of the degree programme.

## Chapter 7. Transitional and final provisions

*Article B-7.1 - Amendments and periodic review*

1. Any amendment to the Teaching and Examination Regulations will be adopted by the dean after taking advice, and if necessary approval by the relevant Programme Committee. A copy of the advice will be sent to the authorised representative advisory body.
2. An amendment to the Teaching and Examination Regulations requires the approval of the authorised representative advisory body as stated in the WHW.
3. An amendment to the Teaching and Examination Regulations is only permitted to concern an academic year already in progress if this demonstrably does not damage the interests of students.

*Article B-7.2 - Transitional provisions*

1. If the curriculum changes, the new curriculum and regulations also apply to students already enrolled. Students can however request the Examinations Board to have the curriculum as it was when they started their studies apply to them.
2. Transitional Provisions for students who started in 2016-2017 or earlier:
   a. As of 2017/2018, *Mathematical Proof Methods for Logic* is a compulsory component replacing *Basic Logic*. Students who were required to take Basic Logic can take *Mathematical Proof Methods for Logic* instead. Students who were not allowed to take *Basic Logic* are exempted from the obligation to take *Mathematical Proof Methods for Logic* and are not allowed to take the course for credit.
   b. As of 2017/2018, *Set Theory* is a new obligatory element in the track Logic and Mathematics, while the bachelor course *Axiomatic Set Theory* is no longer part of the curriculum. Students who were required to take *Axiomatic Set Theory* can take *Set Theory* instead. Students who were not required to take *Axiomatic Set Theory* are exempted from the obligation to take *Set Theory*.

*Article B-7.3 - Publication*

1. The Dean of the faculty will ensure the appropriate publication of these Regulations and any amendments to them.
2. The Teaching and Examination Regulations will be posted on the faculty website and deemed to be included in the course catalogue.

*Article B-7.4 - Effective date*
These Regulations enter into force with effect from 31 August, 2020.
Thus drawn up by the Dean of the Faculty of Science on 10 November, 2020.

## Appendix 1 List of components provided by the study programme

| Component | Code | Study load (ECTS) | Semester | Teaching method | Assessment |
|---|---|---|---|---|---|
| Advanced Neural and Cognitive Modelling | | 6 | 1 | L, PR, CP | Written |
| Advanced Topics in Computational Semantics | 5314ATIC6Y | 6 | 2 | L, PR, CP | Written |
| Advanced Topics in Philosophy of Language | 187413186Y | 6 | 2 | L, PR | Written, oral |
| Basic Probability: Programming | 53142BPC3Y | 3 | 1 | PR, CP | Written |
| Basic Probability: Theory | 53141BPC3Y | 3 | 1 | PR | Written |
| Capita Selecta: Set Theory | | 6 | 1 | L, PR | Written |
| Category Theory | 5314CATH8Y | 8 | 1 | L | Written |
| Causal Inference: Philosophical Theory and Modern Practice | 187413216Y | 6 | 2 | L, PR | Written, oral |
| Cognition and Language Development | 5244COLD6Y | 6 | 1 | L, PR | Written, oral |
| Cognitive Models of Language and Music (not taught in 2020-2021) | 5244CMLM6Y | 6 | 2 | L, PR | Written, oral |
| Computability and Interaction | 5314COIN6Y | 6 | 2 | L, GP | Written |
| Computational Complexity | 5314COCO6Y | 6 | 2 | L, PR | Written |
| Computational Dialogue Modelling | 5314CODM6Y | 6 | 2 | L, PR | Written, oral |
| Computational Social Choice | 5314COSC6Y | 6 | 2 | L, PR | Written |
| Concurrency Theory | 5284COTH6Y | 6 | 1 | L, PR, CP | Written |
| Deep Learning for Natural Language Technology | 5204DLFN6Y | 6 | 1 | L, CP | Written |
| Distributed Algorithms (VU) | 52848DIA6Y | 6 | 2 | L, PR | Written |
| Dynamic Epistemic Logic | 5314DYEL6Y | 6 | 1 | L, PR | Written |
| Epistemic Paradoxes and Philosophical Puzzles | 5314EPPP6Y | 6 | 1 | L, PR, IC | Written |
| Foundations of Neural and Cognitive Modelling | 5244FNCM6Y | 6 | 2 | PR, CP | Written, oral |
| Game Theory | 5314GATH6Y | 6 | 2 | L | Written |
| History of Logic | 187421076Y | 6 | 1 | PR | Written, oral |
| Homotopy Type Theory (not taught in 2020-2021) | 5314HOTT6Y | 6 | 1 | L | Written |
| How music works: music cognition | 5244HMWM6Y | 6 | 2 | L, PR, IC | Written |
| Information Theory | 5314INTH6Y | 6 | 1 | L, PR | Written, oral |
| Inleiding Modale Logica (Introduction to Modal Logic) | 5122INML6Y | 6 | 1 | L, PR | Written |
| Introduction to the Philosophy of Language | 187413017Y | 6 | 1 | L, PR | Written |
| Kant, Logic & AI | 187413066Y | 6 | 2 | L, PR | Written, oral |
| Knowledge Representation and Reasoning | | 6 | 2 | L, PR | Written |
| Kolmogorov Complexity | 5314KOCO6Y | 6 | 2 | L, PR | Written |
| Lambda Calculus | 5314LACA6Y | 6 | 1 | L, PR | Written |
| Logic and Conversation | 5314LOCO6Y | 6 | 1 | L | Written |
| Logic, Games and Automata | 5314LOGA6Y | 6 | 2 | L, PR | Written |
| Logic, Language and Computation | 5314LOLC3Y | 3 | 1 | L | Written |
| Logic and Philosophy | 187421086y | 6 | 2 | L, PR | Written |
| Logical Verification (VU) | 52848LOV6Y | 6 | 2 | L, PR | Written |
| Machine Learning Theory | 5334MALT8Y | 8 | 1 | L | Written |
| Mathematical Proof Methods for Logic | 5314MPMF6Y | 6 | 1 | L, PR | Written |
| Mathematical Structures in Logic | 5314MASL6Y | 6 | 2 | L, PR | Written |
| Meaning, Reference and Modality | 187413096Y | 6 | 1 | L, PR | Written |
| Model Theory | 5314MOTH6Y | 6 | 2 | L, PR | Written |
| Natural Language Processing 1 | 52041NLP6Y | 6 | 1 | L, PR, CP, IC | Written |
| Natural Language Processing 2 | 52042NLP6Y | 6 | 2 | L, CP | Written, oral |
| Ontology: Philosophical Perspectives (TBC) | 187415146Y | 6 | 2 | L, PR | Written, oral |
| Philosophical Logic | 5314PLLO6Y | 6 | 1 | L, PR | Written |
| Philosophy of Cognition | 187413256Y | 6 | 1 | L, PR | Written |
| Philosophy of Mathematics | 187413176Y | 6 | 2 | L, PR | Written, oral |
| Philosophy of Techno Science | 187421026Y | 6 | 2 | L, PR | Written, oral |
| Proof Theory | 5314PRTH6Y | 6 | 2 | L, PR | Written |
| Protocol Validation (VU) | 5284PRV6Y | 6 | 1 | L, PR, CP | Written |
| Radical Interpretation, Hermeneutics, Practice Theory | | 6 | 2 | L | Written |
| Quantum Computing | 5334QUCO8Y | 8 | 2 | L | Written |
| Quantum Information Theory | 5334QUIT8Y | 8 | 2 | L | Written |

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|---|---|---|---|---|---|
| Rationality, Cognition and Reasoning | 187413086Y | 6 | 1 | L, PR | Written, oral |
| Recursion Theory | 5314RETH6Y | 6 | 1 | L, PR | Written |
| Research Project Master of Logic | 53142RPL6Y | 6 | 1&2 | IC | Written |
| Rudiments of Axiomatic Set Theory | 5314RAST3Y | 3 | 1 | L, PR | Written |
| Semantics and Cognition (not taught in 2020-21) | 5314SECO6Y | 6 | 1 | L, PR, IC | Written, oral |
| Semantics and Philosophy (TBC) | 187421126Y | 6 | 2 | PR | Written, oral |
| Seminar Mathematical Logic | 5314SEML3Y | 3 | 1 | PR | Oral |
| Set Theory | 53348SET8Y | 8 | 1 | L | Written, oral |
| Structures for Semantics | 187413106Y | 6 | 2 | L, PR | Written, oral |
| Syntax and Semantics 1 | 184410156Y | 6 | 1 | L | Written |
| Syntax and Semantics 2 | 184410166Y | 6 | 2 | L | Written |
| Term Rewriting Systems (VU) | 52848TER6Y | 6 | 2 | L, PR | Written |
| Thesis Master of Logic | 5314TML30Y | 30 | 1 & 2 | IC | Written, oral |
| Time | 187413077Y | 6 | 2 | L, PR | Written |
| Topics in Modal Logic | 5314TIML6Y | 6 | 1 | L | Written |
| Topology, Logic and Learning | 5314TOLL6Y | 6 | 2 | L, PR | Written |
| Topos Theory (UU) | 5334TOTH8Y | 8 | 2 | L | Written |
| Wittgenstein on Ethics and Aesthetics (not taught in 2020-21) | 187421016Y | 6 | 2 | PR | Written, oral |

L = Lectures, LS = Lab sessions, CP = Computer practical, PR = practical, IC = Individual coaching, GP = Group project