

- 1: Sep/Oct 2023
- 2: Nov/Dec 2023
- 4: Feb/Mar 2024
- 5: Apr/May 2024
- not in 2023/24

all
1+2: Logic,
Language and
Computation
(Dekker)
[3EC]

Philosophical
Logic
all
1: [MoL-FNWI]
Mathematical
Proof Methods
for Logic
(Incurvati)

L&M, L&C
1+2: [BScWisk]
Introduction to
Modal Logic
(Bezhanishvili)

4: [MoL-FNWI]
Mathematical
Structures in Logic
(Bezhanishvili)

1+2: [MastMath]
Category Theory
(van den Berg)
[8EC]

Mathematical
Logic

[MoL-FNWI]
Capita Selecta:
Set Theory
(TBA)

L&M
1: [MoL-FNWI]
Rudiments of
Axiomatic Set Theory
(Jahnke)

4+5: [MoL-FNWI]
Seminar
Mathematical Logic
(ten Cate)
[3EC]

L&M
4: [MoL-FNWI]
Proof Theory
(Venema, Girlando)

5: [MoL-FNWI]
Type Theory
(van den Berg)

L&M
5: [MoL-FNWI]
Model Theory
(Jahnke)

4+5: [MastMath]
Topos Theory
(van Oosten)
[8EC]

5: [MoL-FNWI]
Recursion Theory
(TBA)

Theoretical
Linguistics

1: [RM-Ling]
Syntax-Semantics
Interface 1
(Aboh)

4: [RM-Ling]
Syntax-Semantics
Interface 2
(Aboh)

L&L
5: [MoL-FGW]
Structures for
Semantics
(Aloni)

2: [MoL-FNWI]
Logic and
Conversation
(Roelofsen)

4: [MoL-FGW]
Semantics and
Philosophy
(Aloni, Dekker)

L&P L&L
1: [MoL-FGW]
Meaning, Reference
and Modality
(Dekker)

4: [MoL-FGW]
Philosophy of
Mathematics
(Incurvati)

L&P
2: [MoL-FNWI]
Philosophical Logic
(Beckers)

2: [MoL-FGW]
Philosophy of Logic
(Schindler)

Philosophy

1: [MoL-FGW]
Introduction to
the Philosophy
of Language
(Brouwer)

2: [MoL-FGW]
Philosophy of
Techno Science
(Russo)

1: [MSc-PH]
Philosophy of
Science
(De Haro)

2: [MoL-FGW]
Ontology: Historical
Perspectives
(Skirke)

2: [MoL-FGW]
Philosophy of
Cognition
(Schoonen)

1: [MoL-FGW]
Rationality, Cog-
nition and Reasoning
(Krzyzanowska)

[MoL-FNWI]
Causal Inference
(Schulz)

Game Theory,
Economics &
Social Choice

1+2: [MoL-FNWI]
Seminar
Economics and
Computation
(Reiffenhäuser)

2: [MoL-FNWI]
Advanced
Algorithms
(Reiffenhäuser)

4: [MoL-FNWI]
Logical Foundations
of Quantum
Mechanics (Smets)

Mandatory Courses of Tracks:
L&P: Logic & Philosophy
L&L: Logic & Language
L&C: Logic & Computation
L&M: Logic & Mathematics

Master of Logic
2023/24

version: 12 June 2023; design: C. Schaffner
[Suggestions and comments are welcome!](#)

Cognition

2: [MSc B&CS]
Cognition and
Language
Development
(Schaeffer)

[MoL-FGW]
Semantics and
Cognition (TBA)

[MoL-FNWI]
Computational
Dialogue Modelling
(Fernandez)

5: [MoL-FNWI]
Game Theory
(Endriss)

2: [MoL-FNWI]
Computational
Social Choice
(Endriss)

1: [MoL-FNWI]
Algorithmic Game
Theory
(Schäfer)

L&C
5: [MoL-FNWI]
Computational
Complexity
(de Haan)

L&C
2: [MoL-FNWI]
Information Theory
(Resch)

Theoretical
Computer
Science

4+5: [MastMath]
Quantum
Information Theory
(Ozols) [8EC]

1+2: [MastMath]
Quantum
Computing
(de Wolf) [8EC]

4: [MoL-FGW]
Data-driven History
of Ideas
(Betti)

2: [MoL-FGW]
Advanced Topics in
Philosophy of
Language
(Betti)

Computational
Linguistics / AI

1:[MoL-FNWI]
Basic Probability:
Theory
(Fontaine)
[3EC]

2:[MoL-FNWI]
Basic Probability:
Programming
(Fontaine)
[3EC]

2: [MScAI]
Natural Language
Processing 1
(Shutova)

5: [MScAI]
Natural Language
Processing 2
(Sima'an)

5: [MoL-FNWI]
Advanced Topics in
Computational
Semantics
(Shutova)

4+5: [MastMath]
Machine Learning
Theory
(van Erven) [8EC]

2: [MScB&CS]
Foundations of
Neural and
Cognitive Modelling
(Zuidema)

1: [MSc B&CS]
Advanced Neural
and Cognitive
Modelling
(Burgoyne)

6 (in June): [MScAI]
Interpretability and
Explainability in AI
(Zuidema)

4: [MScB&CS]
How Music Works:
Music Cognition
(Honing)

2: [MScAI]
Deep Learning 1
(Asano)

1: [MScAI]
Machine Learning 1
(Bekkers)

4: [MScAI]
Knowledge
Representation and
Reasoning
(de Haan)

2: [MoL-FNWI]
Computational
Learning Theory, Logic
and KR (ten Cate)

4: [MScCS-VU]
Term Rewriting
Systems
(Endrullis)

5: [MScCS-VU]
Distributed
Algorithms
(TBA)

4: [MoL-FNWI]
Full Stack Quantum
Computing
(van de Wetering)

5: [MoL-FNWI]
Quantum Cryptography
(Speelman)

Quantum