

1: Sep/Oct 2020

2: Nov/Dec 2020

4: Feb/Mar 2021

5: Apr/May 2021

not in 2020/21

**all**1+2: Logic,  
Language and  
Computation  
(Dekker)  
[3EC]4: [MoL-FGW]  
Philosophy of  
Techno Science  
(Russo)[MoL-FGW]  
History of logic:  
Theories of Language  
in Early Modern  
Philosophy (Maat)4: [MoL-FGW]  
Radical  
Interpretation,  
Hemeneutics,  
Practice Theory  
(Stokhof)[MoL-FGW]  
Wittgenstein on  
Ethics and  
Aesthetics  
(Stokhof)1: [MoL-FGW]  
Introduction to  
the Philosophy  
of Language  
(Brouwer)2: [MoL-FGW]  
Data-driven History  
of Ideas  
(Betti)**Philosophy**

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

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

**Philosophical Logic**

**all**  
1: [MoL-FNWI]  
Mathematical  
Proof Methods  
for Logic  
(Schlöder)

1: [MoL-FNWI]  
Epistemic Paradoxes  
and Philosophical  
Puzzles  
(Smets)4: [MoL-FGW]  
Logic and  
Philosophy  
(Assadian)4: [MoL-FGW]  
Philosophy of  
Mathematics  
(Incurvati)

**L&P**  
2: [MoL-FNWI]  
Philosophical Logic  
(van Rooij)

5: [MoL-FGW]  
Advanced topics in  
Philosophy of  
Language  
(TBA)

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

**L&L**  
4: [MoL-FGW]  
Time  
(van Lambalgen)

4: [MoL-FNWI]  
Topology, Logic and  
Learning  
(Balag)2: [MoL-FNWI]  
Dynamic Epistemic  
Logic  
(Balag)2: [MoL-FGW]  
Semantics and  
Philosophy  
(Dekker, Aloni)1: [MoL-FNWI]  
Logic and  
Conversation  
(Roelofsen)

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

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

2: [MoL-FNWI]  
Topics in  
Modal Logic  
(Venema)**Theoretical Linguistics**1: [RM-Ling]  
Syntax and  
Semantics 1  
(Hengeveld, TBC)4: [RM-Ling]  
Syntax and  
Semantics 2  
(Ruijgrok)**Game Theory & Social Choice**4: [MoL-FNWI]  
Game Theory  
(Endriss)5: [MoL-FNWI]  
Computational  
Social Choice  
(Endriss)6: [MScAI]  
Symbolic Systems 1  
(TBA)4: [MoL-FNWI]  
Mathematical  
Structures in Logic  
(Bezhanishvili)1+2: [MastMath]  
Category Theory and  
Topos Theory  
(van den Berg) [8EC]

**L&M**  
4: [MoL-FNWI]  
Proof Theory  
(van den Berg)

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

[MoL-FNWI]  
Category Theory  
(van den Berg)1: [MScCS-VU]  
Protocol Validation  
(Ponse)5: [MoL-FNWI]  
Logic, Games and  
Automata  
(Afshari)2: [MScCS-VU]  
Logical Verification  
(Blanchette)2: [MScCS]  
Concurrency Theory  
(Ponse)1+2: [MoL-FNWI]  
Homotopy Type  
Theory  
(van den Berg)1: [MoL-FNWI]  
Lambda Calculus  
(Rodenburg)1+2: [MoL-FNWI]  
Seminars  
Mathematical Logic  
(Löwe, Galeotti)  
[3EC]1: [MoL-FNWI]  
Recursion Theory  
(Marti)1: [MoL-FNWI]  
Rudiments of  
Axiomatic Set  
Theory (Löwe)  
[3EC]

**L&M**  
1+2: [MMath-UvA]  
Set Theory  
(Hart, Löwe)  
[8EC]

4+5: [MastMath]  
Topos Theory  
(van Oosten)  
[8EC]5: [MoL-FNWI]  
Seminars  
Mathematical Logic  
(Löwe, Galeotti)  
[3EC][MoL-FNWI]  
Homotopy Type  
Theory  
(van den Berg)1+2: [MoL-FNWI]  
Lambda Calculus  
(Rodenburg)1: [MoL-FNWI]  
Recursion Theory  
(Marti)5: [MoL-FNWI]  
Kolmogorov  
Complexity  
(Torenvliet)4: [MScCS-VU]  
Term Rewriting  
Systems  
(Endrullis)

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

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

4+5: [MMath-UvA]  
Quantum  
Information Theory  
(Walter and Ozols)  
[8EC]4+5: [MMath-UvA]  
Quantum  
Computing  
(de Wolf)  
[8EC]**Quantum**

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**L&M:** Logic & Mathematics

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

**Cognition****Master of Logic  
2020/21**version: 12 June 2020:  
<https://github.com/cschaaffner/MoLOverviewPoster>

Suggestions and comments are welcome!

**Computational  
Linguistics / AI**

2:[MoL-FNWI]  
Basic  
Probability:  
Programming  
(Ferreira Aziz)  
[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)1: [MScAI]  
Deep Learning for  
Natural Language  
Processing  
(Monz, Aziz)4+5: [MastMath]  
Machine Learning  
Theory  
(Koolen, Grünwald,  
de Heide) [8EC]5: [MScCS-VU]  
Distributed  
Algorithms  
(Fokkink)1: [MoL-FNWI]  
Computability and  
Interaction  
(Baeten)

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

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

**Theoretical Computer Science**