MASTER PROGRAMME IN LOGIC

GOTHENBURG UNIVERSITY

Structure of the master

<table>
<tr><td rowspan="2">First Semester</td><td>Logic & Completeness (LOG112)</td><td>Set Theory (LOG121)</td><td rowspan="6">Research Seminar</td></tr>
<tr><td>Models of Computation (LOG115)</td><td>Modal Logic (LOG131)</td></tr>
<tr><td rowspan="2">Second Semester</td><td>Proof Theory (LOG221)</td><td>Expressibility & Incompleteness (LOG215)</td></tr>
<tr><td>Philosophy of Logic (LOG250)</td><td>Model Theory (LOG211)</td></tr>
<tr><td rowspan="2">Third Semester</td><td>Elective Course I</td><td>Elective Course II</td></tr>
<tr><td>Research Skills in Logic (LOG311)</td><td>Elective Course III</td></tr>
<tr><td>Forth Semester</td><td colspan="2">Master Thesis (LOG410/420)</td></tr>
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Elective courses

In recent times courses marked with a diamond (◊) were always part of the offer.

- Advanced Set Theory (LOG270)
- ◊ Advanced Topics in Proof Theory (LOG365)
- ◊ λ-calculus, types and foundations of programming languages (LOG370)
- ◊ Logic, Games and Automata (LOG290)
- ◊ Category Theory (LOG350)
- Functorial Semantics (LOG390)
- Topos Theory (LOG380)
- History of Logic (LOG280)
- Philosophy of Mathematics (LOG360)
- Specialization in Logic 1-5 (LOG230/240/320/330/340)

Electives at other departments.

- Computational semantics (LT2813)
- Artificial Intelligence: Cognitive Systems (LT2318)
- Topology (MMA100)
- Discrete Mathematics (MMG610)
- Algebraic Structures (MMG500)
- Functional Programming (DIT143)
- Types for Programs and Proofs (DIT235)