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| Code of course: **BMI-LOTD-102E.2, BBN-FIL-301.1. BMA-FILD-301.1,** **BMA-LOTD17-102** |
| Title of course: **Logic lecture** |
| Lecturer: **Márton Gömöri** |
| **General aim of the course**: The course provides an introduction to classical first-order logic and its main meta-theorems.**Prerequisites:**The course assumes some familiarity with the basic concepts and methods of formal logic.**Content of the course**:The course covers the following topics:* Syntax and semantics of first-order languages
* First-order calculus
* Soundness and completeness
* Peano arithmetic
* Elements of model theory
* Gödel’s incompleteness

**Grading criteria, specific requirements**:Grading is based on homeworks and oral exam.**Required reading**:J. Barwise and J. Etchemendy, *Language, Proof and Logic.* CSLI Publications, 2011.**Suggested further reading**:L. T. F. Gamut, *Logic, Language, and Meaning. Volume I: Introduction to Logic*. University of Chicago Press, 1991.E. Mendelson, *Introduction to Mathematical Logic*. Springer, 1997.  |