**COURSE DESCRIPTIONS**

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| Code of course: **BMI-LOTD17-102E, BMI-LOTD-102E.2, BMA-LOTD17-102, BMA-FILD-301.1, BBN-FIL18-301, BBN-FIL-301.1** |
| Title of course: **Logic lecture** |
| Lecturer: **Márton Gömöri** |
| **General aim of the course**: The course provides an introduction to first-order logic.**Content of the course**:* Syntax of first-order languages
* Formalization of ordinary language structures
* Semantics of first-order languages
* Central logical notions
* Peano arithmetic
* Limits of first-order logic

**Grading criteria, specific requirements**:Grading is based on homework.**Required reading**:P. D. Magnus and T. Button, forallx:Cambridge, 2017.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.  |