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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. |