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| Code of course: **BMI-LOTD-204E.01, BMI-LOTD17-203E.01** |
| Title of course: **Metalogic** |
| Lecturer: **András Máté** |
| **General aim of the course:**  Prove the most important metatheorems of logic within a general framework  **Content of the course:**  Metalogic investigates properties of formalized theories (so as negation-completeness, semantical completenes, decidability, consistency) within the framework of some (formalized or at least fomalizable) theory. This course bases on the theory of canonical calculi by Imre Ruzsa and on the Markov algorithms. It extends to the construction of them, to their connection (interdefinability) and the demonstration of the well-known theorems of metalogic (Gödel’s theorems, Church and Tarski theorem) within this framework in an abstract and very general form. We investigate some alternative frameworks and the philosophical importance of these theorems, too.  **Grading criteria, specific requirements:**  Test exam (problem solving).  **Required reading:**  Imre Ruzsa, *Introduction to Metalogic.* Budapest, 1993. |