|  |
| --- |
| Code of course: BMI-LOTD-329E.01 BMA-LOTD17-202 BMA-LOTD-329.01 |
| Title of course: **Advanced Modal Logic** |
| Title of course in English: Advanced Modal Logic |
| Lecturer: Zalán Gyenis |
| **General aim of the course:**  The main aim of the course is to discuss advanced topics and papers on modal logic.  **Content of the course:**  The course includes various topics based on the interests of the students. Sample topics are computability and complexity problems, Lindström-type theorems in modal logic, the algebraization process and its connections with computability, etc.  **Grading criteria, specific requirements:**  Grading is based on homeworks (70%) and a final exam (30%).  Prerequisites: Modal logic, Set theory, Computability theory, Basic algebra  **Required reading:**   * Chagrov, M. Zakharyaschev: Modal logic, Clarendon Press, Oxford, 1997 * Blackburn, P., Rijke, M., & Venema, Y. (2001). *Modal Logic* (Cambridge Tracts in Theoretical Computer Science). Cambridge: Cambridge University Press.   **Suggested further reading:**  Various papers selected during the semester |