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| Code of course: BMI-LOTD-328E.04 BMA-LOTD-328.04 BMA-LOTD17-102.1 |
| Title of course: Universal Algebra |
| Lecturer: Zalán Gyenis |
| **General aim of the course:**  This is an introduction to universal algebra for logicians.  **Content of the course:**  The course covers basic definitions and theorem of universal algebra, such as lattices, congruences, homomorphism theorems, product, quotient, subalgebra, terms, free algebras, identities, Birkhoff’s theorems, logical applications: Boolean algebras, discriminator varieties, connections with category theory.  **Grading criteria, specific requirements:**  Grading is based on homeworks (70%) and a final exam (30%).  Prerequisites: Basic algebra, Set theory, Introductory logic (first order logic)  **Required reading:**   * Burris-Sankappanavar: Universal algebra, GTM, Springer, 2001 * G. Gratzer: Universal algebra, 2nd edition, Springer, 2008   **Suggested further reading:**   * J. Jezek: Universal algebra, lecture notes, 2008 |