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| Code(s): BMA-LOTD17-104.01 BMI-LOTD17-104E |
| Title: Introduction to Algebra |
| Lecturer(s): Judit Madarász |
| Location and time: i/204 (BI-204), Tuesday 10:00-11:30 |
| Consultation (e-mail): madarasz@renyi.hu |

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| General aim of the course:  Developing precise mathematical thinking. |

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| Content of the course:  This course is a brief introduction to abstract algebra. Mostly we will concentrate on  algebraic structures with a single binary operation, with a lot of examples. Topics we will  also touch on include lattice theory, theory of Boolean algebras, and elements of universal algebra. |

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| Examination and evaluation system:  Homework will be assigned and collected regularly. The grade will be based on homework.  Regular attendance is required. |

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| Bibliography:  Ivo Düntsch and Günther Gediga, Sets, Relations, Functions, Methodos Publishers (UK),  2000,  Branimir Seselja; How to Use Algebraic Structures, In Electronic Book:  Mathematics in Sciences and Everyday Life University of Szeged - University of Novi Sad,  2011, <http://www.model.u-szeged.hu/etc/edoc/imp/BSeselja/BSeselja.pdf>  Charles C. Pinter, A Book of Abstract Algebra, Dover,  Maurer I. Gyula és Virág Imre, A relációelmélet elemei, Dacia, Kolozsvár, 1972  B. A. Davey, H. A. Priestley, Introduction to Lattices and Order, Cambridge University  Press, 2002  Stanley N. Burris and H.P. Sankappanavar, A Course in Universal Algebra, The Millennium  Edition, http://www.math.uwaterloo.ca/~snburris/htdocs/UALG/univ-algebra2012.pdf  (In Hungarian: Bevezetés az univerzális algebrába, Tankönyvkiadó, 1988.) |