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| Subject code:  BMA-LOTD-106.03. |
| Subject name: Introduction to Abstract Algebra |
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| Lecturer:  Madarász Judit |
| Location and time:  i/224,   Friday 10:00-11:30 |

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| No prerequisites. |
| Method of evaluation:  Homework will be assigned and collected regularly. The grade will be based on homework. |
| Requirements: Regular class attendance and submitting homework regularly. |

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| Subject content:<br><br>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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| Required reading:<br><br>Ivo Düntsch and Günther Gediga,  Sets, Relations, Functions,  Methodos Publishers (UK), 2000,  http://www.cosc.brocku.ca/~duentsch/archive/methprimer1.pdf<br><br>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 |

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| Selected bibliography:<br><br>Charles C. Pinter, A Book of Abstract Algebra, Dover, htp://www2.math.umd.edu/~jcohen/402/Pinter%20Algebra.pdf<br><br>Maurer I. Gyula és Virág Imre, A relációelmélet elemei, Dacia, Kolozsvár, 1972<br><br>B. A. Davey,  H. A. Priestley, Introduction to Lattices and Order, Cambridge University Press, 2002<br><br>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.) |