| Study Programme: Master in Elementary Teacher |
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| Course Unit Title: Teaching mathematics with software support |
| Course Unit Code: MU-3-2-2-1 |
| Name of Lecturer(s): Márta Takács, Zsolt Namesztovszki |
| Type and Level of Studies: Master Studies (MA) |
| Course Status (compulsory/elective): Elective |
| Semester (winter/summer): Winter |
| Language of instruction: Hungarian |
| Mode of course unit delivery (face-to-face/distance learning): Face-to-face learning |
| Number of ECTS Allocated: 4 |
| Prerequisites: - |
| Course Aims: Students introduced with possibilities of applying computers in teaching mathematics, getting to <br> know the methodological advantages provided by the support of mathematical softwares. Matlab, Maple, Derive, <br> Mathematica. <br> Learning Outcomes: <br> Students introduced to methodical benefits of applying mathematical software packages teaching in <br> mathematics. Students get to know available softwares in teaching mathematics. <br> Syllabus: <br> Theory <br> Getting to know the softwares accessible on local servers, or on remote servers. Overview of the main menus <br> and options for the topic. Practical tasks and activities that can be done in mathematics in lower classes of <br> elementary school. Tasks for supplementary classes for pupils with difficulties and tasks for supplementary <br> Ambrus, András (1995): Bevezetés a matematikadidaktikába. Budapest: Eötvös Kiadó. (одабрана поглавља). <br> Szendrei, Julianna (2005): Gondolod, hogy egyre megy?, Budapest: Typorex Kiadó. (oдабрана поглавља). <br> Practice <br> Students present their seminar papers. Analysing, discussing. <br> Required Reading: <br> Compulsory: <br> Benedek, András (Ed.) (2013): Digitális pedagógia 2.0, Budapest: Typorex. |


| Weekly Contact Hours: 2 <br> $\mathbf{( 3 0 )}$ | Lectures: 1 (15) | Practical work: 1 (15) |
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| Teaching Methods: <br> Lecture, practice, presentation, discussion, individual work, consultation. |  |  |
| Knowledge Assessment (maximum of 100 points): 100    <br> Pre-exam <br> obligations points Final exam points <br> Active class <br> participation 10 written exam 30 <br> Practical work 20 oral exam 20 <br> Preliminary exam(s)    <br> Seminar(s) 20   <br> The methods of knowledge assessment may differ; the table presents only some of the options: written exam, <br> oral exam, project presentation, seminars, etc.    |  |  |

