

<b>Study Programme:</b> Master in Elementary Teacher		
<b>Course Unit Title:</b> Methodology of Developing Basic Mathematical Concepts- Theory		
<b>Course Unit Code:</b> MV-3-2-2-0		
<b>Name of Lecturer(s):</b> Valéria Pintér Krekity, Zita Diana		
<b>Type and Level of Studies:</b> Master Studies (MA)		
<b>Course Status (compulsory/elective):</b> Elective		
<b>Semester (winter/summer):</b> Winter		
<b>Language of instruction:</b> Hungarian		
<b>Mode of course unit delivery (face-to-face/distance learning):</b> Face-to-face learning		
<b>Number of ECTS Allocated:</b> 4		
<b>Prerequisites:</b> -		
<b>Course Aims:</b> Introducing contemporary trends in mathematical concepts. Enable students to master the necessary theoretical and practical knowledge necessary for delivering mathematical concept to preschool children.		
<b>Learning Outcomes:</b> <p>Students able to implement modern scientific, didactic-methodical and professional achievements, and conduct independent research and scientific work in the field of methodology for developing basic mathematical concepts. The basic task of the course is to enable students to connect theory and practice, and to use contemporary professional literature.</p>		
<b>Syllabus:</b> <i>Theory</i> <p>Contemporary tendencies in the methodology of developing mathematical concepts. Cognitive development of preschool children. Formation of mathematical concepts. Objective and tasks of mathematical preparation of children at preschool level. Developing basic mathematical concepts at preschool age - mathematical-cybernetic modeling. Basic methodological principles in developing initial mathematical concepts. Modern forms, methods and means of developing initial mathematical concepts - modern technologies. Basic theoretical problems and practical challenges in developing initial mathematical concepts.</p> <i>Practice</i> <p>Elaboration and presentation of individual topics and discussion.</p>		
<b>Required Reading:</b> <i>Compulsory:</i> <p>Perlai, Rezsőné (1977): A matematikai nevelés módszertana, Budapest: Nemzeti Tankönyvkiadó.  Пинтер, J. – Пинтер Крекић, В. (2010): Дидактика математике, Нови Сад: Форум – Суботица: МТТК.</p> <i>Optional:</i> <p>Scientific articles and researches related to the topic of the course.</p>		
<b>Weekly Contact Hours: 2 (30)</b>	<b>Lectures: 1 (15)</b>	<b>Practical work: 1 (15)</b>

**Teaching Methods:**

Lecture, practice, presentation, discussion, individual work, consultation. Using media and other innovative tools in order to reach the goals of the course.

**Knowledge Assessment (maximum of 100 points):**

<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	15	written exam	
Practical work	25	oral exam	45
Preliminary exam(s)			
Seminar(s)	15		

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.