

Study Programme: Early Childhood Teacher
Course Unit Title: Methodology of Teaching Basic Concepts of Mathematics
Course Unit Code: V-4-1-1-0
Name of Lecturer(s): Valéria Pintér Krekity, Zita Diana
Type and Level of Studies: Undergraduate Studies (BA)
Course Status (compulsory/elective): Compulsory
Semester (winter/summer): Summer
Language of instruction: Hungarian
Mode of course unit delivery (face-to-face/distance learning): Face-to-face learning
Number of ECTS Allocated: 4
Prerequisites: Exam in Elements of Concepts of Mathematics passed
Course Aims: Studying theory of learning mathematics and methodology of transformation of appropriate contents.
Learning Outcomes: After successful completion of the course, it is expected that students acquire skills in functionally organized transfer of knowledge in mathematics. Except for this, students should know about contents in teaching contemporary mathematics and master contemporary methods in their application and realization.
Syllabus: <i>Theory</i> Defining the aim and exercises of teaching mathematics in nursery school. Planning and organization of work in teaching basic concepts of mathematics. Foundations in the teaching program of mathematics in nursery schools. Methodological transformation of teaching contents and their elaboration in teaching of mathematics in nursery schools. Methodological framework for teaching sets, natural numbers, relationships, fractionals, equations and inequalities, basic geometric figures and bodies, measuring and units. Differentiated study in problem solving exercises, especially arithmetics. Methods and models in teaching mathematics. Informatization, following and evaluation of teaching mathematics. <i>Practice</i> During individual or groupwork students will form their points of view and comments (oral or written form), which will be reflected on by the professor and the students. Preparing a plan for an activity.
Required Reading: <i>Compulsory:</i> Matematika 1., 2., 3., 4. az Általános Iskolák osztályai számára (Aktuális Tankönyvek – Актуелни учебници). <i>Optional:</i> Ács, P. (1994): A matematika tanítása I., II., Nemzeti Tankönyvkiadó, Budapest. Пинтер, Ј. – Крекић, В. – Ћетковић, А. (2002): Методички приручник из математике за разредну наставу, Завод за учебнике и наставна средства, Београд.

Петровић, Н. – Пинтер, Ј. (2002): Општа методика наставе математике, Сомбор, Учитељски факултет.

Дејић, М. – Егерић, М. (2001): Методика наставе математике, Учитељски факултет у Јагодини

Nagy, Eszter: matematika foglalkozások/matematika tanítás Módszertana és gyakorlata <http://extensii.ubbcluj.ro/odorheiusec/tanulutmutat-tav/5%20felev/meto%20matem%20okt%2022.pdf> и http://www.ntk.hu/also/tanitoi_kezikonyvek.

Kernya, Róza (szerk.) (2001). *Az anyanyelvi nevelés módszerei*. Kaposvár.

Tóth, Beatrix (2006). A szövegértés fejlesztésének elmélete és gyakorlata. Magyar Nyelvőr. 4. sz.

Törtelei Telek, Márta (2011). Szövegértés-fejlesztés az általános iskola alsó osztályaiban. Újvidék. Forum–Vajdasági Pedagógiai Intézet.

Weekly Contact Hours:
3(45)

Lectures: 2 (30)

Practical work: 1 (15)

Teaching Methods:

Lecture, practice, presentation, discussion, presentation, pair and individual work, consultation.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	20
Practical work	20	oral exam	30
Preliminary exam(s)			
Seminar(s)	20		

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