

Course Unit Descriptor

Study Programme: Elementary Teacher			
Course Unit Title: Developping Combinatoric Capabilities			
Course Unit Code: U-3-2-7-5			
Name of Lecturer(s): Valéria Pintér Krekity, Diana Zita			
Type and Level of Studies: Undergraduate Studies (BA)			
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: 2			
Prerequisites: Passed exam in Methodology of teaching mathematics			
Course Aims: Models, methods and techniques of developping logical-combinatoric capabilities of children by playing mathematical games, solving logical-combinatoric problems.			
Learning Outcomes: By the end of the course, students should be able to conduct and organize activities for developping logical-combinatoric capabilities of children.			
Syllabus: <i>Theory</i> Strategy of creativity in teaching beginner mathematics. Combinatorics in activities for elementary school pupils. Contemporary methodological transformation of combinatorics in teaaching beginner mathematics. Models of developping logical-combinatoric capabilities of children. <i>Practice</i> Doing exercises in combinatorics in class			
Required Reading: Compulsory: Fischer, Robert (1999): Hogyan tanítsuk gyermekeinket gondolkodni?, Budapest: Műszaki Könyvkiadó. Török, Tamás: Kombinatorikus feladatok és tanításuk http://www.ntk.hu/c/document_library/get_file?uuid=86ae0528-60bc-4bae-9536-519d21bfad37&groupId=10801 . Optional: Пинтер, Јанош (1996): Математичко моделирање, Учитељски факултет, Сомбор. Szendrei, Júlianna (2005): Gondolod, hogy egyre megy? Budapest: Typotex Kiadó. Уџбеници математике од 1. до 4. разреда.			
Weekly Contact Hours: 2 (30)		Lectures: 1 (15)	Practical work: 1 (15)
Teaching Methods: Lecture, practice, visiting concerts, analysing different music.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points

Active class participation	10	practical exam	
Practical work	10	oral exam	50
Preliminary exam(s)			
Seminar(s)	30		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			