

# TOROS ÜNİVERSİTESİ

Vocational School  
Child Development

## Course Information

MATHEMATICS AT EARLY CHILDHOOD					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
CGP231	Fall	2	0	2	5

Prerequisites and co-requisites	none
Language of instruction	Turkish
Type	Required
Level of Course	Associate
Lecturer	Lect. Güzin ÖZÇELİK
Mode of Delivery	Face to Face
Suggested Subject	none
Professional practise ( internship )	None
Objectives of the Course	By the end of the course, students will have become informed about: Mathematical thought; content, principles, processes and methods for pre-school maths programmes, materials towards developing mathematical thought.
Contents of the Course	Mathematics Education in Preschool Topics for Mathematics Education in Preschool Period (Description, sorting, classification, pattern, comparison, equalization ....) Objectives of mathematics activity. Digital activities Logical thinking activities Mathematics concepts in early childhood program Materials that can be used in mathematics activities

## Learning Outcomes of Course

#	Learning Outcomes
1	Topics for mathematics education in preschool period (description, sorting, classification ....)
2	Points to consider when planning mathematics education in preschool period.
3	Has the knowledge of child development, learning and special needs.
4	materials that can be used in mathematics activity
5	Logical thinking activities, grading, patterning, measurement, shape activities

## Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Mathematics subjects in preschool period (Description, sorting, classification ...)	Lecture, discussion
2	using everyday events to teach math	Lecture, discussion
3	Purposes in organizing math activities	Lecture, discussion
4	Logical thinking activities	Lecture, discussion
5	Mathematics concepts in early childhood programs	Lecture, discussion
6	Examining and developing mathematical materials	
7	Examining and developing mathematical materials	Lecture, discussion
8	Midterm	Lecture, discussion
9	Purpose of organizing math activities	Lecture, discussion

10	Mathematics concepts in early childhood programs	Lecture, discussion
11	Materials that can be used in math activities	Lecture, discussion
12	Using everyday events to teach math	Lecture, discussion
13	Presentation of the designed math materials	Lecture, discussion
14	Presentation of the designed math materials	Lecture, discussion
15	Presentation of the designed math materials	Lecture, discussion
16	Final Exam	test

## Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Principles and Standards for School Mathematics. NCTM.2000. ? Charlesworth.R., Radeloff,J.D (1991). Experiences in Math for Young Children.Delmar Pub, Newyork. ? Susan,S.S(1996).Early Childhood Mathematics. Allyn and Bacon Pub,USA. ? Aktaş, A.Y(2006). Okulöncesi Dönemde Matematik Eğitimi. Nobel Yayınevi, Ankara. ? İlgili tez, makale ve araştırmalar		

## Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

## Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Topics for mathematics education in preschool period (description, sorting, classification ....)	1,2	1,2
2	Points to consider when planning mathematics education in preschool period.	2,6	1,2
3	Has the knowledge of child development, learning and special needs.	1,10,12	1,2
4	materials that can be used in mathematics activity	1,2	1,2
5	Logical thinking activities, grading, patterning, measurement, shape activities	1,6	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

## Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	2	28
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	1	8	8
4	Web Research, Library and Archival Work	2	5	10
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	10	10
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	2	10	20
11	Midterm Project	0	0	0

12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	1	4	4
15	Preparation for Final Exam	1	10	10
16	Final Exam	1	1	1
				<b>120</b>