

DEVELOPING EFFICIENCY IN MATHEMATICS TEACHING

1	Course Title:	DEVELOPING EFFICIENCY IN MATHEMATICS TEACHING	
2	Course Code:	İMÖ0002	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. HATİCE KÜBRA GÜLER SELEK	
15	Course Lecturers:	Doç. Dr. HATİCE KÜBRA GÜLER SELEK	
16	Contact information of the Course Coordinator:	hkguler@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Learning what a mathematics teaching activity is, how it prepare and use in a lesson and making pratice.	
19	Contribution of the Course to Professional Development:	Preservice mathematics teachers will gain the ability to design and apply mathematical activities	
20	Learning Outcomes:		
		1	Learning what a mathematics activity is.
		2	Learning to design mathematics activity
		3	Learning to use mathematics activity in teaching process
		4	Learning use mathematics activity to evaluate the process
		5	Preparing mathematics activity
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		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	What is mathematics? What is a mathematical activity?		
2	Learning-teaching approaches that can be used in Mathematics Teaching		
3	Common features of mathematics activities, types of activities		
4	Improving Mathematical Literacy through Activities, Technologically supported activities		

5	Process of designing an activity, implementation and evaluation of the activities in the classroom	
6	Argumentation Based Activities	
7	Modelling activities	
8	Activities supporting 21st century skills	
9	Activities supporting mathematical reasoning and proof	
10	Presenting the activities that students have developed	
11	Presenting the activities that students have developed	
12	Presenting the activities that students have developed	
13	Presenting the activities that students have developed	
14	Presenting the activities that students have developed	

22	Textbooks, References and/or Other Materials:	1. Murat Altun (2012). Ortaokullarda Matematik Öğretimi, 2. Yüksel Dede, Muhammed Fatih Doğan, Fatma Aslan Tutak (2020). Matematik Eğitiminde Etkinlikler ve uygulamaları 3. Kamuran Tarım, Güney Hacıömeroğlu (2019).
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Activites			Number	Duration (hour)	Total Work Load (hour)
TERM LEARNING ACTIVITIES					
Theoretical	14	14	2.00	28.00	
Practicals/Labs			0	0.00	0.00
Self study and preperation	0	0	4.00	56.00	
Homeworks			1	15.00	15.00
Project Exam	1	3	0.00	0.00	
Field Studies			0	0.00	0.00
Midterm exams			7	10.00	10.00
Contribution of Final Exam to Success Grade			3	10.00	10.00
Total Work Load					119.00
Total work load/ 30 hr					
Measurement and Evaluation Techniques Used in the			mid term exam, final exam, homework		3.97
ECTS Credit of the Course					4.00

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	4	3	4	4	5	2	5	3	2	2	3	1	1	2	3	1
ÖK2	4	5	4	5	4	3	4	4	2	3	3	1	1	4	4	1
ÖK3	4	5	3	5	4	3	4	5	5	4	3	1	1	4	4	1
ÖK4	4	5	3	5	4	3	3	4	2	3	5	1	1	4	4	1

ÖK5	4	5	3	5	4	3	5	5	2	4	3	1	1	4	4	1
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			