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:	Dr. Ögr. Üyesi TUĞÇE KOZAKLI	
15	Course Lecturers:	Doç. Dr. HATİCE KÜBRA GÜLER SELEK	
16	Contact information of the Course Coordinator:	E-mail: tkozakli@uludag.edu.tr, İş Tel: +90(224) 294 25 97. Adres: BUÜ, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Matematik Eğitimi Anabilim Dalı, 16059 Görükle / BURSA	
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	S/he Learns what a mathematics activity is.
		2	S/he learns to design mathematics activity
		3	S/he learns to use mathematics activity in teaching process
		4	S/he learns use mathematics activity to evaluate the process
		5	S/he prepares mathematics activity
		6	
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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 (2015). Matematik Öğretiminin Temelleri-Ortaokul.

23	Assesment			
	TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**	
	Midterm Exam	0	0.00	
	Home work project	1	40.00	
	Final Exams	2	100.00	
	Total			
	Success Grade			

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	4.00	56.00
Homeworks	2	15.00	30.00
Projects	0	0.00	0.00
Midterm exams	0	0.00	0.00
Field Studies	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			124.00
Total work load/ 30 hr			4.13
ECTS Credit of the Course			4.00

Total	100.00
Measurement and Evaluation Techniques Used in the Course	homework, final exam

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

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**