PRACTICES IN MATHEMATICS TEACHING

1	Course Title:	PRACTICES IN MATHEMATICS TEACHING	
2	Course Code:	SIN5109	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	3.00	
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:	Prof. Dr. YELİZ YAZGAN	
15	Course Lecturers:	None	
16	Contact information of the Course Coordinator:	İş Tel 0224.2755024 e-mail: yazgany@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Comprehending the reflections of basic approaches of mathematics teaching on learning environments	
19	Contribution of the Course to Professional Development:	In this course, graduate students who want to specialize in mathematics education are expected to understand what approaches such as problem solving and constructivism mean in mathematics teaching.	
20	Learning Outcomes:		
		1	Understanding the principles of general learning approaches regarding teaching mathematics
		2	Examining the applications of general learning approaches to teaching mathematics
		3	Recognizing learning/teaching approaches specific to mathematics education
		4	Examining the applications of approaches specific to mathematics teaching
		5	Discussing the reflections of problem solving and mathematical literacy in the classroom
		6	Examination of national and international institutions and standards regarding mathematics education in terms of teaching practices
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Understanding the basic principles of constructivist learning	

2	Explaining how to reflect constructive learning in the classroom with examples	
3	Understanding the basic principles of Realistic Mathematics Education	
4	Explaining how to reflect Realistic Mathematics Teaching in the classroom with examples	
5	Understanding the rationale behind active learning and activity concepts	
6	Explaining how active learning and activity concepts can be implemented in the classroom with examples	
7	Understanding the basic principles of problem solving teaching	
8	Explaining how problem solving teaching can be carried out in the classroom with examples	
9	To explain the basic principles of discovery learning	
10	Finding or designing examples of activities suitable for discovery learning	
11	To explain the concept of mathematical literacy, its components and skills	
12	Finding or designing questions suitable for mathematical literacy	
13	Examining some national and international institutions and standards in terms of teaching	

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	0	0.00	0.00
Homeworks	4	12.00	48.00
Midterm Exam	1	0.00	0.00
Field Studies	0	0.00	0.00
Home work project	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	14.00	14.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

Total	100.00
Measurement and Evaluation Techniques Used in the Course	Assignment

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	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ÖK2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ÖK3	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ÖK4	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1
ÖK5	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1
ÖK6	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1

LO: Learning Objectives PQ: Program Qualifications

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