HISTORY OF MATHEMATICS

1	Course Title:	HISTORY OF MATHEMATICS	
2	Course Code:	GKZ0005	
3	Type of Course:	Compulsory	
4	Level of Course:	First 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:	Dr. Ögr. Üyesi TUĞÇE KOZAKLI	
15	Course Lecturers:	Dr. Öğr. Üyesi Tuğçe KOZAKLI ÜLGER	
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:	In this course, it is aimed that students will be able to recognize the historical development of mathematical concepts, the multicultural structure of mathematics, the role of mathematics in the development of our current civilization, the important mathematicians who played a role in the history of mathematics, and to use the history of mathematics in the process of mathematics teaching.	
19	Contribution of the Course to Professional Development:	The student gets to know the historians of mathematics and gains awareness of the importance of the profession by learning which processes mathematics has gone through.	
20	Learning Outcomes:		
		1	Understanding the historical development of some mathematical concepts
		2	Having the competence to use the history of mathematics in her lessons
		3	To be able to explain the role of mathematics in the development of our civilization today.
		4	To be able to explain the contributions of different civilizations to mathematics
		5	To be able to use the history of mathematics in the mathematics teaching process
		6	Knowing the lives of mathematicians who played an important role in the history of mathematics
		7	
		8	
		9	
		10	
21	Course Content:		

	Course Content:	
Week	Theoretical	Practice
1	The place of history of mathematics in mathematics education, Mathematics arising from daily needs	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical mathematics education, Mathematics arising from daily needs	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Homeworks	1	4.00	4.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	8.00	8.00
Others	0	0.00	0.00
Final Exams	1	12.00	12.00
Total Work Load			94.00
Total work load/ 30 hr			3.13
ECTS Credit of the Course			3.00

	Place of the history of mathematics in mathematics education, Mathematics arising from daily needs	
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2	The history of numbers in ancient Egypt, Mesopotomia and Babylonia	
3	History of numbers in ancient Greece	
4	History of numbers in Indian civilisation	
5	History of numbers in the Turkish-Islamic World	
6	The history of algebra in ancient Egypt, Mesopotomia and Babylonia	
7	History of algebra in ancient Greece	
8	History of algebra in Indian civilisation	
9	History of algebra in the Turkish-Islamic World	
10	The history of geometry in ancient Egypt, Mesopotomia and Babylonia	
11	History of geometry in ancient Greece	
12	History of geometry in Indian civilisation	

13	History of geometry in the Turkish-Islamic World	
14	Explain and discuss how often and how the history of mathematics is integrated into the secondary school mathematics curriculum and textbooks	

22	Textbooks, References and/or Other Materials:	Baki, A. (2014). Matematik Tarihi ve Felsefesi, Pegem Akademik Yayıncılık. Bilimin Uyanışı, B.L.Van Der Waerden (Çeviren: Prof. Dr. Orhan Şerafettin İçen) Matematik Ve Tarihi , Prof. Yavuz Aksoy Matematik Sözlüğü / Matematiğin Öyküsü ve Serüveni 1. cilt Prof. Dr. Ali Dönmez

23 Assesment

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		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	5	2	2	3	1	1	2	2	1	3	3	1	2	4	1	1
ÖK2	5	2	2	3	1	1	2	2	1	3	3	1	2	4	1	1
ÖK3	5	2	2	3	1	1	2	2	1	3	3	1	2	4	1	1
ÖK4	5	2	2	3	1	1	2	2	1	3	3	1	2	4	1	1
ÖK5	5	2	2	3	1	1	2	2	1	3	3	1	2	4	1	1
ÖK6	5	2	2	3	1	1	2	2	1	3	3	1	2	4	1	1

LO: Learning Objectives PQ: Program Qualifications

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