HISTORY OF MATHEMATICS

1	Course Title:	HISTORY OF MATHEMATICS
2	Course Code:	MAT3036
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	6
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
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. BASRİ ÇELİK
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	basri@uludag.edu.tr 0224.2941762
17	Website:	
18	Objective of the Course:	Recognize the important events and people in the history of mathematics.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Knows the basic concepts of the history of mathematics.
	2	Learns the historical development of the numerals and numbers.
	3	Learns the contents of the papyruses Rhind and Moscow understands the importance of them.
	4	Learns the historical development of the number Pi.
	5	Recognizes the Indian mathematician Aryabhata's works and his roles the developing of the mathematics.
	6	Learns to comprehensive information about Diyophant, Euclid and Pythagoras.
	7	Learns to approach of Ibn-i Turk to the solution of quadratic equations.
	8	Learns to life and mathematical works of Khwarizmi and Omar Khayyam.
	9	Learn the history of set theory.
	10	

21	Course Content:	

Course Content:	

Week	Theoretical	Practice
1	Description of course.	
2	What is mathematics and history of mathematics?	
3	Historical development of numerals and numbers.	

4	The oldest known documents in the history of mathematics: Rhind and Moscow Papyrus.	
5	Historical developments of the number Pi.	
6	An ancient Indian mathematician and astronomer: Aryabhata.	
7	Benefits of Diyophant to the world of mathematics.	
8	Euclidian geometry and benefits of Euclid geometries to the mathematical world.	
9	Midterm and feedback	
10	Pythagoras and his era. Approach to the solution of quadratic equations of Ibn-i Turk.	
11	Khwarizmi's life and contributions to the world of mathematics.	
12	The history of set theory.	
13	Math-related works of Omar Khayyam.	
14	Viewing a documentary about the history of mathematics.	

22	Textbooks, References and/or Other Materials:	)Basri Çelik, İ. Naci Cangül - ders notları- 2)Matematik Tarihi, Lütfi Göker, Kültür Bakanlığı Yayınları, Yayın No:1017, 1989, Ankara. 3)Bilim Tarihine Giriş, Sevim Tekeli, Esin Kahya, Melek Dosav, Remzi Demir, Hüseyin G. Topdemir, Yavuz Unat,

Activites	Number	Duration (hour)	Total Work Load (hour)
TERM LEARNING ACTIVITIES	NUMBER	WEIGHT	
Theoretical	14		3.00	42.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		14	5.00	70.00
Quiz	0	0.00		
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Final Exam	1	60.00		
Field Studies		0	0.00	0.00
Midterm exams	1		4.00	4.00
Contribution of Term (Year) Learning Activities to	40.00		
Others		14	2.00	28.00
Final Exams	1		6.00	6.00
Contribution of Final Exam to Success Grade	60.00		
Total Work Load			150.00
Total work load/ 30 hr			5.00
Measurement and Evaluation Techniques Used in the			
ECTS Credit of the Course			5.00

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	2	5	1	4	5	1	1	3	4	2	0	0	0	0	0	0
ÖK2	3	4	1	2	4	1	2	2	5	1	0	0	0	0	0	0
ÖK3	1	5	1	3	4	1	2	3	5	2	0	0	0	0	0	0
ÖK4	2	4	1	1	4	1	2	2	3	1	0	0	0	0	0	0

ÖK5	2	5	1	2	5	1	1	2	4	1	0	0	0	0	0	0
ÖK6	1	4	1	3	4	1	2	3	4	1	0	0	0	0	0	0
ÖK7	3	5	1	3	5	1	3	2	3	2	0	0	0	0	0	0
ÖK8	1	3	1	2	4	1	3	3	5	1	0	0	0	0	0	0
ÖK9	2	4	1	4	4	1	2	2	5	1	0	0	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

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