

MATHEMATICS

1	Course Title:	MATHEMATICS
2	Course Code:	MAT1083
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	1
6	Semester:	1
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:	Dr. Öğr. Üyesi AYŞUN YURTTAŞ GÜNEŞ
15	Course Lecturers:	Matematik Bölümü Öğretim Üyeleri ve Öğretim Elemanları
16	Contact information of the Course Coordinator:	E-posta: ayurttas@uludag.edu.tr Telefon: +90 224 2941769 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE
17	Website:	
18	Objective of the Course:	The purpose of this course is to provide students with basic math knowledge, develop analytical thinking and ability to produce solutions to problems.
19	Contribution of the Course to Professional Development:	It supplies the mathematical knowledge necessary for the students. Students are able to interpret and regulate data systematically.
20	Learning Outcomes:	
	1	He/she defines the set and number conceptions;
	2	He/she recognizes functions and some special functions;
	3	He/she expresses to take the limit at one point of functions;
	4	He/she employs the properties of continuous functions;
	5	He/she employs the properties of continuous functions.; He/she explains the concept of derivative and applications of derivative;
	6	He/she compares the geometric and physical meaning of the derivative;
	7	He/she solves the maximum minimum problems;
	8	He/she interprets the theorems related with derivative;
	9	He/she calculates indefinite limits;
	10	He/she explains drawing curves.
21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Sets and sets of numbers	
2	Functions and their properties	
3	Some special functions and their properties	

4	Limit of functions	
5	Continuity of Functions and discontinuity types	
6	Properties of continuity	
7	Definition of derivative	
8	Rules of derivative, Methods of derivative	
9	Repeating courses and midterm exam	
10	The geometric and physical meaning of the derivative	
11	Maximum minimum problems	
12	Theorems related with the derivative	
13	To compute the indefinite limits	
14	To draw the curves	

22	Textbooks, References and/or Other Materials:	Calculus, İsmail Naci CANGÜL (Editör), Nobel Yayınları, 2012 Genel Matematik 1, Mustafa BALCI, Balcı Yayınları, 2008
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23	Assesment	
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Contribution of Term (Year) Learning Activities to Success Grade	40.00	3.00	42.00
Practicals/Labs	0	0.00	0.00
Contribution of Final Exam to Success Grade	60.00	5.00	70.00
Self study and preperation	14		
Homeworks	0	0.00	0.00
Measurement and Evaluation Techniques Used in the Term	The system of relative evaluation is applied	0.00	0.00
Projects			
Field Studies	0	0.00	0.00

ECTS WORK LOAD TABLE			
Midterm exams	1	15.00	15.00
Others	0	0.00	0.00
Final Exams	1	25.00	25.00
Total Work Load			167.00
Total work load/ 30 hr			5.07
ECTS Credit of the Course			5.00

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	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0
ÖK2	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0
ÖK3	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0
ÖK4	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0

ÖK5	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0
ÖK6	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0
ÖK7	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0
ÖK8	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0
ÖK9	0	1	0	1	4	2	4	0	4	0	0	0	0	0	0	0
ÖK10	0	1	0	1	4	2	4	0	4	0	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			