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. Ögr. Üyesi AYSUN 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
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Measurement and Evaluation Techniques Used in the Course		The system of relative evaluation is applied.

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	5.00	70.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
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**