BASIC MATHEMATICS I

1	Course Title:	BASIC MATHEMATICS I
2	Course Code:	MAT1075
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. FATMA ÖZEN ERDOĞAN
15	Course Lecturers:	Matematik bölümünün tüm öğretim üyesi ve öğretim görevlileri
16	Contact information of the Course Coordinator:	E-posta: fatmaozen@uludag.edu.tr Telefon: +90 224 2942852 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE
17	Website:	
18	Objective of the Course:	is to gain knowledge of basic mathematics to students, to improve the ability of finding solution to problems and analytical thinking.
19	Contribution of the Course to Professional Development:	Can establish correspondence between mathematical concepts and can think analytically
20	Learning Outcomes:	
	1	Knows sets and set operations
	2	Knows sets of number
	3	Knows function and some special functions
	4	Recognizes first and second degree equations
	5	Draws graphs of first and second degree polynomials
	6	Finds solutions of equation and inequalities systems
	7	Calculates limit of functions
	8	Determines whether a functions is continuous or not
	9	
	10	
21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Sets and their properties, set operations	Solving problem

2	Numbers and some basic properties of numbers.	Solving problem
3	Ordered pair, cartesian product of sets and coordinate system	Solving problem
4	Relation and its properties, functions	Solving problem
5	Some special functions and operations on them	Solving problem
6	Equalities, first and second degree equations and their graphs	Solving problem
7	Roots, powers and rationals in equations	Solving problem
8	Midterm exam and evaluation of midterm exam, repeat of previous subjects	Solving problem
9	Absolute value in equations	Solving problem
10	Graphs of second degree functions	Solving problem
11	Inequalities, absolute value and rational in inequalities	Solving problem
12	Algebraic, piecewise and trigonometric functions	Solving problem
13	Continuous functions and types of discontinuities of functions	Solving problem
14	Continuous functions and types of discontinuities of functions	Solving problem

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	3.00	42.00
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	15.00	15.00
Total Work Load			114.00
Total work load/ 30 hr			3.80
ECTS Credit of the Course			4.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
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		The system of relative evaluation is applied.

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	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	1	0	0	0	0	0	0	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**				