MATHEMATICS

1	Course Title:	MATHEMATICS
2	Course Code:	MAT101
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr.Gör. ESRA ÖZDEMİR
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	esraozdemir@uludag.edu.tr / 0224 773 60 42/ Uludağ Üniversitesi Yenişehir İbrahim Orhan MYO
17	Website:	
18	Objective of the Course:	To be able to provide the students with the competence to apply mathematical knowledge and skills required for their profession into their fields
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	To be able to recognize numerical sets
	2	To be able to perform operations related with numbers
	3	To be able to solve problems that include exponential and root statements
	4	To be able to make judgments by relating numbers with other subjects of mathematics
	5	To be able to perform algebraic operations
	6	To be able to perform polynomial operations
	7	To be able to use abbreviations in the operations
	8	To be able to solve equations
	9	
	10	

21	Course Content:	

Course Content:		
Week	Theoretical	Practice
1	The description of cardinal numbers, natural numbers, integer numbers, real numbers, rational and irrational numbers, their features and operations related with these numbers	
2	The description of cardinal numbers, natural numbers, integer numbers, real numbers, rational and irrational numbers, their features and operations related with these numbers	

3	Exponential and Root Quantities, related rules and operations	
4	Exponential and Root Quantities, related rules and operations	
5	Algebraic operations	
6	Four operations related with polynomials	
7	Identity Statements (square of the total of two terms, square of the difference of two terms, total of the squares of two terms, the difference of the squares of two terms)	
8	Mid-Term and Course Review	
9	Identity Statements (cube of the total of two terms, cube of the difference of two terms, total of the cubes of two terms, the difference of the cubes of two terms)	
10	Factorization (By grouping, according to full square method)	
11	Factorization (factorization of ax2+bx+c statement)	
12	Factorization of rational statements	
13	Equations (lateral equations with one unknown	
14	Equations (quadratic equations with one unknown)	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	12	3.00	36.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	25.00	25.00
Others	0	0.00	0.00
Final Exams	1	25.00	25.00
Total Work Load			114.00
Total work load/ 30 hr			3.80
ECTS Credit of the Course			4.00

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

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