MATHEMATICS FOR TECHNICIANS I

1	Course Title:	MATHEMATICS FOR TECHNICIANS I
2	Course Code:	OTPZ101
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):	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. RIDVAN EZENTAŞ
15	Course Lecturers:	Prof.Dr. Rıdvan EZENTAŞ Prof.Dr. Basri ÇELİK Öğr.Gör. Hülya BOZYOKUŞ Yrd.Doç.Dr. Nisa ÇELİK Yrd.Doç.Dr. Hacer ÖZDEN
16	Contact information of the Course Coordinator:	rezentas@uludag.edu.tr 0224 2942304 Uludağ Üniversitesi Teknik Bilimler MYO 16059 Nilüfer,Bursa
17	Website:	
18	Objective of the Course:	The student, for the profession to gain the necessary competence to apply mathematical knowledge and skills to work.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

		1	The algebraic operations related to the numbers implements to the profession.
		2	The operations related to first and second order equations implements to the profession.
		3	The operations related to first and second order equations inequalities implements to the profession.
		4	The operations related to systems of linear equations implements to the profession.
		5	The operations related to linear inequality systems implements to the profession.
		6	The operations related to geometry implements to the profession.
		7	The operations related to Matrices implements to the profession.
		8	
		9	
		10	

21	Course Content:	

Course Content:

Week	Theoretical	Practice

1	Introducing the course, set theory	
2	Integers, fractional numbers	
3	exponential numbers, rooted numbers, absolute value, complete value, logarithms	
4	algebraic expressions, first degree equations, ratio, proportion problems	
5	quadratic equations, inequalities	
6	linear equations and linear inequality systems	
7	General Repetition and Midterm Exam 1	
8	Angle, Triangle and the basic features	
9	Basic quadrangle types	
10	The circle and basic properties	
11	The basic properties of solids	
12	General Repetition and Midterm Exam 2	
13	Matrices	
14	Determinants, systems of linear equations in three variables	

22	Textbooks, References and/or Other Materials:	Basri Çelik (2012), Mesleki Matematik, Dora Yayınları Basri Çelik (2010), Temel Matematik, Dora Yayınları
23	Assesment	

TERM LEARNING ACTIVITIES NUMBE WEIGHT

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Home work-project	0	0.00	
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Total	2	100.00	
Homeworks	0	0.00	0.00
Projects Grade	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	15.00	15.00
Total		100.00	
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			119.00
Total work load/ 30 hr			3.97
ECTS Credit of the Course			4.00

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	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	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
ÖK7	0	0	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