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:	Öğr.Gör. HÜLYA BOZYOKUŞ
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının Görevlendirdiği Öğretim Elemanları.
16	Contact information of the Course Coordinator:	hulya@uludag.edu.tr 0224 2942378 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:	Undergraduate students will be provided with experience in professional mathematics subjects.
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	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Final Exam	1	60.00
Total	2	100.00

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	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	20.00	20.00
Total Work Load			119.00
Total work load/ 30 hr			3.97
ECTS Credit of the Course			4.00

24 ECTS / WORK LOAD TABLE

Course Assessment and Evaluation Techniques Used in the Assessment and Evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on

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	0
ÖK6	0	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	0

LO: Learning Objectives PQ: Program Qualifications

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