

MATHEMATICS FOR TECHNICIANS

1	Course Title:	MATHEMATICS FOR TECHNICIANS
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:	Creates and develops the knowledge base of the prospective teacher. Comprehends the concepts related to the field and the relations between concepts based on the competencies gained in secondary education. Have defines and analyzes problems related to his field, and develops solutions based on evidence and research.
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	Students apply the circle equation and its basic properties to their profession.
	9	Solid objects and their basic properties apply to their profession.
	10	Determinants apply systems of linear equations of three variables to their profession.
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 R	WEIGHT
Midterm Exam	1	40.00
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		Techniques such as lecture, discussion, question-answer, 3E are used in the teaching of the course. Midterm and final exams are taken into consideration in the measurement and evaluation of the course.
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	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			134.00
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	3	2	2	3	1	2	2	1	2	0	0	0	0	0	0	0
ÖK2	3	3	3	3	3	2	2	2	2	0	0	0	0	0	0	0
ÖK3	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	3	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	3	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	2	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0
ÖK7	3	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	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			