

MATHEMATICS

1	Course Title:	MATHEMATICS
2	Course Code:	MAT115
3	Type of Course:	Optional
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
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. GÜLEN TÜMER
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.
16	Contact information of the Course Coordinator:	gtumer@uludag.edu.tr 0 224 7112781 / 617 33 Uludağ Üniversitesi İnegöl MYO 16400 İnegöl / BURSA
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:	The aim of the lesson is to provide the students with the information about how to use mathematics in different areas and provide them with skills to solve problems, analytical thinking and decision making in an effective and rational way.
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	Equations (First degree equations with one unknown and two unknown)	
6	Ratio, proportion and averages (Direct proportion, inverse proportion, arithmetic average, weighted arithmetic average, geometric average and harmonic average)	
7	Ratio, proportion and averages (Direct proportion, inverse proportion, arithmetic average, weighted arithmetic average, geometric average and harmonic average)	
8	Mid-Term and Course Review	
9	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)	

Activites		Number	Duration (hour)	Total Work Load (hour)
11	Theoretical Factorization (By grouping, according to full	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
12	Factorization (Factorization of ax^2+bx+c self study and preparation	14	2.00	28.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
14	Equations (Quadratic equations with one	0	0.00	0.00
Field Studies		0	0.00	0.00
22	Midterm Exams	1	16.00	16.00
Textbooks, References and/or Other		Ödr. Gör. Sıddık ARSLAN, Temel ve Genel Matematik.		
Others		0	0.00	0.00
Final Exams		1	18.00	18.00
		Sevuktekin Mustafa, Akşuyek Harman, Biçer, Yılmaz Hatice, Sosval Bilimler Mvö için Temel Matematik, Dora		
Total Work Load				90.00
Total work load/ 30 hr				3.00
ECTS Credit of the Course				3.00

TERM LEARNING ACTIVITIES	NUMBER	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	Sample problems. Students are given time to think about sample questions to solve and simple questions are asked orally so that they can concentrate on the lesson and that they can pay their attention to it.
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24	ECTS / WORK LOAD TABLE
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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	3	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	2	0	0	4	1	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
ÖK4	0	2	2	3	3	0	0	3	3	1	1	2	0	0	0	0
ÖK5	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0
ÖK6	0	2	2	2	1	0	0	4	3	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	3	2	3	2	0	0	3	3	0	0	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			