	GENERAL MATHEMATIC I									
1	Course Title:	GENERAL MATHEMATIC I								
2	Course Code:	FEN1015								
3	Type of Course:	Compulsory								
4	Level of Course:	First Cycle								
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	4.00								
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:	Yrd.Doç.Dr. BAHTİYAR BAYRAKTAR								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	E-mail: bbayraktar@uludag.edu.tr, İş Tel: +90(224) 294 22 98. Adres: UÜ, Eğitim Fakültesi, İlköğretim Bölümü, Matematik Eğitimi Anabilim Dalı, 16059 Görükle / BURSA								
17	Website:									
18	Objective of the Course:	The purpose of the course is to comprehend the importance of mathematics and the basic notions of the mathematical concepts, plus to gain practice skills in this specialty.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Concepts and properties of proposition can be defined. The principle of induction and the concepts of range and absolute value are learnt.							
		2	Set concept is known and operations related with it can be done. Systems of numbers and their properties are learnt. The base arithmetic is known.							
		3	Relation concept and its properties are known. Equivalence and ordered relation can be described.							
		4	The definition of the concept of function, its types and features are known.							
		5	The concept of limit and its characteristics are known.							
		6	Limit calculations can be done.							
		7	The concept of continuity and its features are known.							
		8 The concept of continuity and types of discontinuity are known.								
		9 The concept of derivative can be defined.								
		10	The rules of derivation are known.							
21	Course Content:	-	•							
Course Content:										

Week	Theoretical		P	ractice						
1	Propositional logic. General concepts processes. Main characteristics of the operations. Proving methods. Exercis	Э								
2	The concept of sets. Operations relat sets. Exercises	ed with								
3	System of numbers. Definitions. The arithmetic. Exponential, root and loga numbers. Exercises.									
4	Absolute value. Complex numbers. Exercises. Polar notation of complex numbers. Equations of nth roots. Exe	rcises.								
5	Relation: Ordered pairs, cartesian pro the definition of correlation, properties relation, inverse relation. Equivalence Relation and Order Relation.	s of								
6	Definition of function, function types, function, composite functions. Some functions (linear, quadratic functions)									
7	Some special functions (absolute val notation, the exact value, polynomial, closed, partial, parametric).									
8	Trigonometric functions, inverse-trigo functions and their graphs.	nometric								
9	Exponential functions, logarithmic fur Practice related with Functions. Exer									
Activit	IThe concert of limit A verifield appro CS	aah tha		Number	Duration (hour)	Total Work Load (hour)				
Theore Regitinuity, features of continuous functions,				14	4.00	56.00				
Practicals/Labs				0	0.00	0.00				
Self stu	dytempolepatiperatione derivative. Deriva	ation		14	5.00	70.00				
Homew				0	0.00	0.00				
Project	Compound functions. High-ordered	and		0	0.00	0.00				
Field S	tudies			0	0.00	0.00				
Midtern	Derivative of the parametric and close rexams functions, Exercises,	ed		1	8.00	8.00				
Others				0	0.00	0.00				
Fi AA E	Lextbooks, References and/or Other		1. B	₁ Prof. Dr. Hilmi HACIS asic and General Math	ALHOGLU, Assoc ematics. Volume I	4th Edition				
	/ork Load					150.00				
Total w	ork load/ 30 hr		2. F	Prot. Dr. Mustata BA dition 2008	LCI, General Mathe	B. OUCS. 5th				
ECTS	Credit of the Course		TV	olume 1,2, 4th Edition	1, 1985.	5.00				
23	Assesment									
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midterm Exam 1				0.00						
Quiz 0				0.00						
Home	work-project	0	0.00							
Final E	xam	1	60.00							
Total		2	100.00							
	ution of Term (Year) Learning Activitie s Grade	es to	40.00							
Contrib	ution of Final Exam to Success Grade)	60	0.00						
			1							

Total	100.00
Measurement and Evaluation Techniques Used in the Course	

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	0	5	0	4	5	0	3	0	5	0	5	0	0	0	0
ÖK2	5	0	5	0	5	4	0	4	0	5	0	5	0	0	0	0
ÖK3	5	0	5	0	5	3	0	4	0	5	0	5	0	0	0	0
ÖK4	5	0	5	0	5	3	0	4	0	5	0	5	0	0	0	0
ÖK5	3	0	4	0	3	2	0	1	0	1	0	5	0	0	0	0
ÖK6	3	0	3	0	2	2	0	1	0	1	0	3	0	0	0	0
ÖK7	4	0	3	0	3	2	0	1	0	1	0	3	0	0	0	0
ÖK8	4	0	3	0	3	2	0	1	0	1	0	3	0	0	0	0
ÖK9	5	0	4	0	4	2	0	1	0	1	0	3	0	0	0	0
ÖK10	3	0	3	0	2	2	0	1	0	1	0	3	0	0	0	0
			LO: L	.earr	ning (Dbjed	tive	s P	Q: P	rogra	ım Qu	alifica	tions	\$		
Contrib ution Level:	1 \	1 very low 2 low					3 Medium			4 High			5 Very High			