	GENERAL MA	THEM	ATICS AND TEACHING I							
1	Course Title:	GENER	AL MATHEMATICS AND TEACHING I							
2	Course Code:	MAT5119								
3	Type of Course:	Optiona	I							
4	Level of Course:	Second Cycle								
5	Year of Study:	1								
6	Semester:	1								
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:	Dr. Ögr. Üyesi 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.							
	1.	10	The rules of derivation are known.							
21	Course Content:									
	Course Content:									

Week	Theoretical		F	Practice					
1	Propositional logic. General concepts processes. Main characteristics of thoperations. Proving methods. Exercise	е							
2	The concept of sets. Operations rela sets. Exercises	ted with							
3	System of numbers. Definitions. The arithmetic. Exponential, root and loganumbers. Exercises.								
4	Absolute value. Complex numbers. Exercises. Polar notation of complex numbers. Equations of nth roots. Exercises.	ercises.							
5	Relation: Ordered pairs, cartesian pr the definition of correlation, propertie relation, inverse relation. Equivalenc Relation and Order Relation.	s of							
6	Definition of function, function types, function, composite functions. Some functions (linear, quadratic functions)	special							
7	Some special functions (absolute val notation, the exact value, polynomial closed, partial, parametric).								
8	Trigonometric functions, inverse-trigo functions and their graphs.	onometric							
9	Exponential functions, logarithmic fur Practice related with Functions. Exer								
Activit	lthe concent of limit. A variable oper/	acab tha		Number	Duration (hour)	our) Total Work Load (hour)			
Theore	Continuity, features of continuous ful	nctions,	Τ	14	4.00	56.00			
Practic	als/Labs			0	0.00	0.00			
Self stu	dytempolepatione derivative. Derivative	ation		14	5.00	70.00			
Homev			<u> </u>	0	0.00				
Project	compound functions. High-ordered	<del>z ana</del>	Т	0	0.00	0.00			
Field S	tudies		_	0	0.00	0.00			
Midterr	Derivative of the parametric and clos it exams functions. Exercises.	ed	Τ	1	8.00	8.00			
Others	Ifunctions. Exercises.		_	0	0.00	0.00			
Fi <b>22</b> E	Lextbooks, Reterences and/or Other	•	1	<sub>1</sub> Prof. Dr. Hilmi HACI asic and General Mat	\$ALIHOGLU, Assoc	18.0M. Balci.			
	IMaterials: /ork Load		ΙB	lasic and General Mat	dematics Volume L	4th Edition 150.00			
Total w	ork load/ 30 hr		72	Prof. Dr. Mustata BA	CI, General Mathe	matics. 5th			
ECTS (	Credit of the Course		╨	dition 2008		3.00			
			TV	olume 1,2 , 4th Editio	n, 1985.				
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	٧	VEIGHT					
Midterr	n Exam	1	4	0.00					
Quiz		0	0.00						
Home v	work-project	0	0.00						
Final E	xam	1	60.00						
Total		2	100.00						
	oution of Term (Year) Learning Activities Grade	es to	40.00						
Contrib	oution of Final Exam to Success Grade	e	6	0.00					
			Ĺ						

Total									100	100.00								
Measurement and Evaluation Techniques Used in the Course								ne										
24	EC	CTS / WORK LOAD TABLE																
25 CONTRIBUTION OF LEAF QL											OUTC		S TO	PROC	SRAMI	ΜE		
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
LO: Learning Objectives PQ: Program Qualifications																		
utior	Contrib 1 very low ution Level:		2	2 low		3 1	Medi	ium 4 High			5 Very High							