	GENE	RAL I	MATHEMATIC I							
1	Course Title:	GENER/	AL MATHEMATIC I							
2	Course Code:	MAT109	7							
3	Type of Course:	Compuls	ory							
4	Level of Course:	First Cyc	le							
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:	no								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr.	SİBEL YALÇIN							
15	Course Lecturers:	_	hmet TEKCAN							
16	Contact information of the Course Coordinator:	16059 G	Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü sörükle-Bursa-TÜRKİYE Duludag.edu.tr, +90 224 2941758							
17	Website:									
18	Objective of the Course:	problems	e sufficient mathematics knowledge to solve chemical is to students and also to improve the ability of finding to problems and analytical thinking.							
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Calculates limit of functions							
		2	Determines whether a function is continuous or not							
		3	Knows the concept of derivative							
		4	Learns the rules of calculating derivative							
		5	Calculates derivative of functions							
		6	Sketches graphs of functions							
		7	Learn to problems of maximum-minimum							
		8								
		9								
04	Course Content:	10								
21	Course Content.	0-	urse Content:							
Week	Theoretical	Co	Practice							
1	Numbers.		1 Idollog							
2	Cartesian product, relation, types of	relations								
3	Functions, properties of functions, tyl									
4	The definition of limit and rules of lim continuity	it,								

5	The definition of derivative and derivative, the geometrical application of derivative, implicit derivative.								
6	Derivative of some special functions	S							
7	Problems of change								
8	Midterm exam and evaluation of midexam	dterm							
9	Increasing and decreasing functions	s							
10	Fundamental theorems on derivative and Main Value Theorems	e: Rolle							
11	Maximum and minimum problems								
12	Critical points, increasing, decreasing convex, concave	ng,							
13	L' Hospital rule on limits by using de	erivative							
14	Graphs of functions								
22	Textbooks, References and/or Othe Materials:	er	 [1] Genel Matematik, Mustafa Balcı, Balcı Yayınları, 2003. [2] Genel Matematik, Diferensiyel ve İntegral Hesap, Osman Bizim, Ahmet Tekcan, Betül Gezer. Dora Yayınları, 2011 [3] A First Course in Calculus, Serge Lang, World Student Series Third Edition, Addison-Wesley Publishing Company. [4] Thomas Calculus, 11. Edition, Pearson Addison-Wesley Publishing Company, 2005 						
Activit	tes		Number	Duration (hour)	Total Work Load (hour)				
Theore	tical	R	14	4.00	56.00				
Practic	als/Labs		0	0.00	0.00				
Self stu	udy and preperation	0	0 पृष्	5.00	70.00				
Homew			0	0.00	0.00				
Final E	<u>ş</u> am	1	60 ₀ 00	0.00	0.00				
Field S			0	0.00	0.00				
Contrib	ution of Term (Year) Learning Activities Grade	ties to	40,00	12.00	12.00				
Others			0	0.00	0.00				
Final E	Xams	Je	00,00	12.00	12.00				
	Vork Load				150.00				
Masw	rementanghБүaluation Techniques U	Jsed in the			5.00				
	Credit of the Course	-			5.00				
25	CONTRIBUTION		RNING OUTCO	MES TO PROGRAM	IME				

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	0	3	0	0	0	3	4	0	0	4	0	4	0	0	0	0
ÖK2	0	3	0	0	0	3	4	0	0	4	0	4	0	0	0	0
ÖK3	0	3	0	0	0	3	4	0	0	4	0	4	0	0	0	0
ÖK4	0	3	0	0	0	3	4	0	0	4	0	4	0	0	0	0

ÖK5	0	3	0	0	0	3	4	0	0	4	0	4	0	0	0	0
ÖK6	0	3	0	0	0	3	4	0	0	4	0	4	0	0	0	0
ÖK7	0	3	0	0	0	3	4	0	0	4	0	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3	3 Medium		4 High			5 Ver	y High	l			