	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.	SIBEL YALÇIN							
15	Course Lecturers:	_	hmet TEKCAN							
16	Contact information of the Course Coordinator:	16059 G	Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü örükle-Bursa-TÜRKİYE Juludag.edu.tr, +90 224 2941758							
17	Website:									
18	Objective of the Course:	problems	e sufficient mathematics knowledge to solve chemical as 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								
0.1	Course Contact	10								
21	Course Content:	0-	uras Contonti							
Week	Theoretical	CO	urse Content: Practice							
vveek 1	Numbers.		Flactice							
2	Cartesian product, relation, types of	relations								
3	Functions, properties of functions, ty									
4	functions  The definition of limit and rules of limit continuity	it,								
	Continuity									

25	CONTRIBUTION		RNING OUTCO	MES TO PROGRAM	1ME				
ECTS (	Credit of the Course	•			5.00				
Cource	rementanghեγaluation Techniques L	sed in the	1		5.00				
	Vork Load				150.00				
Final E	Xams		100,00	12.00	12.00				
Others			0	0.00	0.00				
Succes	oution of Term (Year) Learning Activities Grade	ies to	40,00	12.00	12.00				
Field S			0	0.00	0.00				
Final E	xam	1	60 <sub>0</sub> 00	0.00	0.00				
Homew			0	0.00	0.00				
Self stu	udy and preperation	0	10.44	5.00	70.00				
Practica	als/Labs	1.	0	0.00	0.00				
Theore	etical	R	14	4.00	56.00				
Activit	tes		Number	Duration (hour)	Total Work Load (hour)				
22	Textbooks, References and/or Othe Materials:	·r	<ul> <li>[1] Genel Matematik, Mustafa Balcı, Balcı Yayınları, 2003.</li> <li>[2] Genel Matematik, Diferensiyel ve İntegral Hesap, Osman Bizim, Ahmet Tekcan, Betül Gezer. Dora Yayınları, 2011</li> <li>[3] A First Course in Calculus, Serge Lang, World Student Series Third Edition, Addison-Wesley Publishing Company.</li> <li>[4] Thomas Calculus, 11. Edition, Pearson Addison-Wesley Publishing Company, 2005</li> </ul>						
14	Graphs of functions								
13	L' Hospital rule on limits by using de	rivative							
12	Critical points, increasing, decreasing convex, concave	ng,							
11	Maximum and minimum problems								
10	Fundamental theorems on derivative and Main Value Theorems	e: Rolle							
9	exam Increasing and decreasing functions	<u> </u>							
8	Midterm exam and evaluation of mid	dterm							
7	Problems of change	•							
6	derivative, implicit derivative.  Derivative of some special functions	1							
5	The definition of derivative and derivative, the geometrical application of								

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 Medium			4 High			5 Very High			l		