	GENE	RAL								
1	Course Title:	GENER/	AL MATHEMATIC I							
2	Course Code:	MAT1097								
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	•							
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.	İSMAİL NACİ CANGÜL							
15	Course Lecturers:	Matemat	ik bölümünün tüm öğretim üyesi ve öğretim görevlileri							
16	Contact information of the Course Coordinator:	Telefon: Adres: B	cangul@uludag.edu.tr +90 224 2941756 ursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik 16059 Görükle-Bursa-TÜRKİYE							
17	Website:									
18	Objective of the Course:	is to give sufficient mathematics knowledge to solve chemical problems to students and also to improve the ability of finding solution to problems and analytical thinking.								
19	Contribution of the Course to Professional Development:	It supplies the mathematical knowledge necessary for chemists.								
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								
		10								
21	Course Content:									
		Co	ourse Content:							
	Theoretical		Practice							
1	Numbers.									
2	Cartesian product, relation, types of									
3	Functions, properties of functions, ty functions	·								
4	The definition of limit and rules of lim continuity	nit,								

	The defi rules, th derivativ	e geor	netrica	al appl	lication		on												
	Derivati					ons													
7	Problem	-																	
-	Midterm exam	exam	and e	valua	tion of	midtei	rm												
9	Increasi	ng and	d decre	easing	functio	ons													
	Fundam and Mai					itive: F	Rolle												
11	Maximu	m and	minim	ium pi	roblem	s													
	Critical points, increasing, decreasing, convex, concave																		
13	L' Hospi	e on lin	nits by	/ using	deriva	ative													
14	Graphs	of fund	ctions																
	Materials:									 [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 									
Activites								1	Numb	ber		Dura	Duration (hour)			Total Work Load (hour)			
Theoret	ical					R		1	4			2.00	2.00 28.00						
Practica	als/Labs								4			2.00	2.00 28.00						
Self stud	study and preperation											5.00	5.00 40.00						
	meworks											7.00							
Projects	Exam 1											10.00	10.00			10.00			
Field St					·	,.		40				0.00				0.00			
	ribution of Term (Year) Learning Activities to											15.00	15.00			15.00			
Others				1.5111.1	P5517			0				0.00				0.00			
Final Ex						Tuue			1 15.00					15.00					
Total W				. .		- 11	al : a th	-	150.00										
Course																			
ECTS C	Credit of	the Co	ourse	UND										ł	5.00				
25			CON	TRIE	BUTIO	N OI			-	OUTC ATIO	-	S TO I	PROG	GRAM	ME				
	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				