	CALCULUS I(DI	FFERI	ENTIAL CALCULATIONS)							
1	Course Title:	CALCUL	US I(DIFFERENTIAL CALCULATIONS)							
2	Course Code:	MAT1071								
3	Type of Course:	Compulsory								
4	Level of Course:	First Cycle								
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. SÜLEYMAN ÇİFTÇİ								
15	Course Lecturers:	Matematik bölümünün tüm öğretim üyesi ve öğretim görevlileri								
16	Contact information of the Course Coordinator:	E-posta: sciftci@uludag.edu.tr Telefon: +90 224 2941754 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE								
17	Website:									
18	Objective of the Course:	is to give sufficient mathematics knowledge to solve engineering 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:									
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							
			Sketches graphs of functions							
		7	Knows basic definitons and theorems of mathematics							
		8								
		9								
		10								
21	Course Content:									
	Course Content:									
	Theoretical		Practice							
1	Numbers, Functions. Solving problems									

2	Cartesian Plane, circle		Sc	olving problems							
3	Ellipse, parabola, hyperbola		Solving problems								
4	The definition of limit and rules of limi continuity	t,	Solving problems								
5	The definition of derivative and derivarules, the geometrical application of derivative, implicit derivative.	ation	Solving problems								
6	Derivative of some special functions		Solving problems								
7	Change problems.		Solving problems								
8	Midterm exam and evaluation of midt exam, repeat of previous subjects	erm	Solving problems								
9	Increasing and decreasing functions.		Solving problems								
10	The main value Theorem and its appl	lications	Solving problems								
11	Convexity, concavity, Curve sketching	Sc	olving problems								
12	The maximum and minimum problem coordinates.	Sc	olving problems								
13	Inverse functions, Derivative of invers functions.	Sc	olving problems								
14	The exponential and logarithm function their applications.	ons and	Sc	olving problems							
Activites				Number	Duration (hour)	Total Work					
Activit	63			Number	Duration (nour)	Load (hour)					
Theore	tical		P.	ւ <u>խ</u> lishing Company -20 Temel Matematik. Ba	9500 sri Celik, İsmail Nad	42.00 ti Cangül Nisa					
Practic	als/Labs			14	2.00	28.00					
Self stu	dy and preperation		4 5	Genel Matematik, iviu Genel Matematik (Dif	stata baici, baici ya grensivel ve İntegra	iyırıları, 2003. Filesan)					
Homew	vorks			0	0.00	0.00					
Project	Accormant		Z	0 1	0.00	0.00					
Field S	tudies			0	0.00	0.00					
Midtern	n exams	R	П	1	13.00	13.00					
Others				14	4.00	56.00					
Dinizi E	xams	0	0.0	3 0	13.00	13.00					
Total W	/ork Load		T			180.00					
Fiotal E	xxxxmload/30 hr	1	60	0.00		6.00					
ECTS (Credit of the Course					6.00					
	ution of Term (Year) Learning Activities s Grade	es to	40.00								
Contrib	ution of Final Exam to Success Grade)	60.00								
Total			100.00								
Measu Course	ement and Evaluation Techniques Us	ed in the									
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	4	2	2	3	1	1	1	1	1	1	1	0	0	0	0	
ÖK2	4	4	1	2	2	1	1	2	2	1	1	1	0	0	0	0	
ÖK3	5	5	2	2	3	1	1	2	2	1	1	1	0	0	0	0	
ÖK4	4	5	2	2	2	1	1	2	2	1	1	1	0	0	0	0	
ÖK5	5	4	2	2	3	1	1	2	2	1	1	1	0	0	0	0	
ÖK6	5	4	2	2	2	1	1	1	1	1	1	1	0	0	0	0	
ÖK7	5	5	3	3	4	1	1	2	2	1	1	1	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	on			2	2 low			3 Medium			4 High			5 Very High			