	CALCULUS I								
1	Course Title:	CALCULUS I							
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:	None							
12	Language:	English							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. İSMAİL NACİ CANGÜL							
15	Course Lecturers:	Matematik bölümünün tüm öğretim üyesi ve öğretim görevlileri							
16	Contact information of the Course Coordinator:	E-posta: cangul@uludag.edu.tr Telefon: +90 224 2941756 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						
			Learns the rules of calculating derivative						
			Calculates derivative of functions						
			Sketches graphs of functions						
		7	Knows basic definitons and theorems of mathematics						
		8							
		9							
		10							
21	Course Content:								
١٨/ :	The area the all	Co	purse Content:						
		Practice Solving problems							
1	Numbers, Functions. Solving problems								

2	Cartesian Plane, circle	S	olving p	roblen	ns							
3	Ellipse, parabola, hyperbola	S	Solving problems									
4	The definition of limit and rules of limit, continuity	S	Solving problems									
5	The definition of derivative and derivation rules, the geometrical application of derivative, implicit derivative.	S	Solving problems									
6	Derivative of some special functions	S	Solving problems									
7	Change problems.	S	Solving problems									
8	Midterm exam and evaluation of midterm exam, repeat of previous subjects	S	Solving problems									
9	Increasing and decreasing functions.	S	Solving problems									
10	The main value Theorem and its applications Solving problems											
11	Convexity, concavity, Curve sketching.			Solving problems								
12	The maximum and minimum problems, pola coordinates.	r S	Solving problems									
13	Inverse functions, Derivative of inverse functions. Solving problems											
14	The exponential and logarithm functions and their applications.	The exponential and logarithm functions and their applications. Solving problems										
Activit	tes		Numb				ition (hour)	Total V Load (I			
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Contrib	Credit of the Course oution of Term (Year) Learning Activities to	40	0.00						6.00			
	ss Grade pution of Final Exam to Success Grade	60	0.00									
Total			100.00									
	rement and Evaluation Techniques Used in the											
24	ECTS / WORK LOAD TABLE											
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS											
	PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7	PQ	B PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
	LO: Learning Objective	S	PQ: P	•	ım Qu	alifica	_	5				

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					