CALCULUS I(DIFFERENTIAL CALCULATIONS)									
1	Course Title:	CALCULUS 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:	There are no prerequisites.							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. ESEN İYİGÜN							
15	Course Lecturers:	Prof.Dr.Kadri Arslan Yrd.Doç.Dr.Sezayi Hızlıyel							
16	Contact information of the Course Coordinator:	e-posta: esen@uludag.edu.tr telefon: 0.224.2941766 adres: Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 16059, Görükle Kampüsü, Bursa							
17	Website:								
18	Objective of the Course:	To train students in understanding of numbers, inequalities, functions and powers. To provide experience in drawing the graph of a curves. To train students in understanding of derivative and rules of derivative. To give knowledge on compute limit. To train students in establishing mathematical modelling of some problems. To provide experience in some special functions.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Knows the corresponding mathematical models to bring up to date problems. Mathematics is a whole, is not the only solution of the problems you learn to reach different methods of solving the problem.						
		2	Recognise numbers, inequalities and functions.						
		3	Learns in drawing the graph of a curve.						
			Learns derivative, limit and continuity.						
		5	Learns maximum and minimum problems, increasing and decreasing functions.						
			Learns indeterminate forms and differential.						
		7	Learn how to take the derivative of some special functions.						
		8							
		9							
		10							
21	Course Content:								
	Course Content:								

Week	Theoretical		Practice					
1	Numbers and Inequalities		Solved number and inequality examples.					
2	Functions		Function examples given.					
3	Graphs		Graphs were drawn.					
4	Curves and equations		Examples of the curve and the equation is solved.					
5	Limit and Continuity		Were given examples of limit and continuity.					
6	The derivative		Examples of derivatives are solved.					
7	Higher derivatives and the chain rule		Examples were given of higher order derivatives and the chain rule.					
8	Midterm Exam + Repeating courses		Solving problems.					
9	Trigonometric functions, their graphs properties	and	Graphs were drawn of them by giving examples of trigonometric functions.					
10	The maximum and minimum problen increasing and decreasing functions, mean value theorem		Examples were given the maximum and minimum problems, increasing and decreasing function examples were solved and examples related to the mean value theorem.					
11	Indeterminate forms, Polar coordinat Parametric curves	es,	Indeterminate forms, polar coordinates and parametric curves were given examples of.					
12	Differential, Curve sketching,		Examples were given of differential and curve sketching.					
13	Hyperbolic and Inverse functions and derivatives.	d their	Examples of derivatives of hyperbolic and inverse functions are solved.					
14	Exponents and Logarithm functions a derivatives.	and their	Exponential and logarithmic functions derivatives examples were given.					
22	Textbooks, References and/or Other Materials:		 Prof. Dr.Mustafa Balcı, 2003, Genel Matematik I, Balcı Yayınları, Cilt I, 2.Baskı, ISBN-975-6683-00-7, Ankara, 418 s. Serge Lang, 1980, A First Course in Calculus, Fourth Edition, ISBN 0-201-04148-0, Yale University, 524 s. H.Hilmi Hacısalihoğlu, Mustafa Balcı, Fikri Gökdal, 1988, Temel ve Genel Matematik, Cilt I, 3. Baskı, Ankara, 678 s. Thomas Calculus, 11.Edition, Pearson Addison-Wesley Publishing Company -2005. James Stewart TÜBA YAYINLARI Kalkülüs Diferansiyel ve İntegral Hesap 2010. ISBN:9758593943 					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	1	40.00					
Quiz		0	0.00					
Home v	work-project	0	0.00					
Final E	xam	1	60.00					
Total		2	100.00					
Contribution of Term (Year) Learning Activities to Success Grade			40.00					
Contrib	ution of Final Exam to Success Grade	е	60.00					
Total			100.00					
Measu Course	rement and Evaluation Techniques Us	sed in the						
24	ECTS / WORK LOAD TABLE							

Activites	Number	Duration (hour	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	14	1.00	14.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	14	3.00	42.00
Final Exams	1	16.00	16.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

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	4	4	0	4	0	0	0	3	0	0	0	0	0	0	0
ÖK2	0	4	4	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	4	0	3	0	0	0	3	0	0	0	0	0	0
ÖK4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution			2	2 low		3 Medium			4 High			5 Very High			