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	3.00							
9	Practice (hour/week):	2.00	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.							
		4	Learns derivative, limit and continuity.							
		5	Learns maximum and minimum problems, increasing and decreasing functions.							
		6	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		Р	Practice							
1	Numbers and Inequalities		s	Solved number and inequality examples.							
2	Functions		F	Function examples given.							
3	Graphs		G	Graphs were drawn.							
4	Curves and equations		Ε	Examples of the curve and the equation is solved.							
5	Limit and Continuity		W	Were given examples of limit and continuity.							
6	The derivative		Ε	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		S	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 problem increasing and decreasing functions, mean value theorem		pı w	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 coordinate Parametric curves	es,		Indeterminate forms, polar coordinates and parametric curves were given examples of.							
12	Differential, Curve sketching,		Е	xamples were given of	differential and cur	ve sketching.					
13	Hyperbolic and Inverse functions and derivatives.	I their		xamples of derivatives inctions are solved.	of hyperbolic and in	nverse					
14	Exponents and Logarithm functions a derivatives.	and their		Exponential and logarithmic functions derivatives examples were given.							
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	tical		Z. E	Serge Lang, 1980, A dition, ISBN 0-201-041	arsi Course in Caldulus, Fourt 48-0, Yale University, 524 s.						
Practic	als/Labs		<u> </u>	14	2.00	28.00					
Self stu	dy and preperation		6	760, remerve Generiv 78 ⁴ s.	2.00 28.00						
Homev	vorks		•	0	0.00 0.00						
Project	\$		5 James Stewart TÜBA YAYINLARI Kalkülüs 1949eransiyel								
Field S	tudies			0	0.00	0.00					
Midterr	n exams			1	10.00	10.00					
Others				14	3.00	42.00					
FERME	ABARSNING ACTIVITIES	NUMBE	W	ÉIGHT	16.00	16.00					
	Vork Load					180.00					
Total w	rork load/ 30 hr	0	n	00		6.00					
ECTS (Credit of the Course	ľ	ام	00		6.00					
Final E	xam	6	60.00								
Total		2	10	100.00							
Contribution of Term (Year) Learning Activities to Success Grade				40.00							
Contrib	oution of Final Exam to Success Grade)	60.00								
Total			10	100.00							
Measu Course	rement and Evaluation Techniques Us	sed 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	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
		l	LO: L	earr	ning (bjec	tive	s P	Q: P	rogra	m Qu	alifica	tions	S	1	
Contrib ution Level:	n i			2	2 low	3	3 Medium			4 High			5 Very High			