	CALCULUS II (INTE	GRAL CALCULATIONS)							
1	Course Title:	CALCUL	US II (INTEGRAL CALCULATIONS)							
2	Course Code:	MAT107	2							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	ele							
5	Year of Study:	1								
6	Semester:	2								
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:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Doç. Dr.	BETÜL BULCA							
15	Course Lecturers:	Matemat	ik bölümünün tüm öğretim üyesi ve öğretim görevlileri							
16	Contact information of the Course Coordinator:	ometin@uludag.edu.tr, 0 (224) 2941760 U.Ü. Fen-Ed. Fak. Matematik Bölümü, Görükle/BURSA								
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	Knows the concept of integral							
		2	Learns the rules of calculating integral							
		3	Calculates integral of functions							
		4	Learns the applications of integral							
		5	Knows the concept of serie							
		6	Determines whether a serie is convergent or not							
		7	Knows power series.							
		8	Knows some basic definitons and theorems of mathematics							
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
	Theoretical		Practice							
1	The indefinite integral, area.		Solving problem							
2	Upper and lower sums	ion	Solving problem							
3	The fundamental theorem of integrat	ION	Solving problem							
4	Inequalities and improper integrals		Solving problem							
5	Techniques of integration		Solving problem							

6	Techniques of integration		Solving problem								
7	Applications of integratin(length of curves, surface of revolution)		Solving problem								
8	Midterm exam and evaluation of midexam, repeat of previous subjects	lterm	Solving problem								
9	Applications of integratin(volumes of revolution, work and center of gravity		Solving problem								
10	Taylor's formula and estimate for the remainder)	Solving problem								
11	Convergent series, series with positive	/e terms.	Solving problem								
12	Convergence Tests		Solving problem								
13	Power series		Solving problem								
14	Differentiation and integration of pow and their some applications	ver series	Solving problem								
22 Activit	Textbooks, References and/or Other Materials:	r	1-A First Course in Calculus, Serge Lang, World Student Series Third Edition, Addison-Wesley Publishing Company, ISBN:0-201-04148-0 2-Thomas Calculus, 11.Edition,Pearson Addison-Wesley Publishing Company -2005 3) Temel Matematik, Basri Çelik, İsmail Naci Cangül, Nisa Çelik, Osman Bizim, Metin Öztürk; Dora Yayınları, 2010 4) Genel Matematik, Mustafa Balcı, Balcı yayınları, 2003. 5) Genel Matematik (Diferensiyel ve İntegral Hesap), Ahmet Tekcan, Betül Gezer, Osman Bizim; Dora Yayınları, 2011 Number Duration (hour) Total Work								
				L							
Midtern	ilical n Exam	1	40!do	3.00	42.00						
Practic	als/Labs		14	2.00	28.00						
Selfsty	kyrand preperation	0	o	2.00	28.00						
Homew	vorks		0	0.00	0.00						
Project	S	2	100.00	0.00	0.00						
Field S	tudies		0								
Middless	as extande		1	13.00	13.00						
Others			14	4.00 56.00							
Figal E	xams		100.00	13.00							
Total V	Vork Load				180.00						
Cotarise	ork load/ 30 hr			6.00							
ECTS (Credit of the Course				6.00						
25	CONTRIBUTION		RNING OUTCO	OMES TO PROGRA	MME						

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	2	3	3	2	2	3	1	3	2	2	1	1	0	0	0	0
ÖK2	3	3	2	3	3	3	1	3	2	3	1	1	0	0	0	0
ÖK3	3	3	2	2	3	2	1	3	2	2	2	2	0	0	0	0
ÖK4	4	4	3	3	3	3	3	4	3	3	3	2	0	0	0	0

Contrib 1 very low ution Level:		:	2 low		3 Medium			4 High			5 Very High					
LO: Learning Objectives PQ: Program Qualifications																
ÖK8	3	3	3	3	4	3	3	2	3	3	3	3	0	0	0	0
ÖK7	3	2	2	2	2	3	2	2	3	2	2	2	0	0	0	0
ÖK6	2	2	2	1	3	2	2	3	2	2	3	2	0	0	0	0
ÖK5	2	2	1	2	2	3	3	2	2	3	2	1	0	0	0	0