	CALCULUS II ((INTE	GRAL CALCULATIONS)							
1	Course Title: CALCULUS II (INTEGRAL CALCULATIONS)									
2	Course Code:	MAT1072								
3	Type of Course:	Compulsory								
4	Level of Course:	First Cycle								
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:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Prof. Dr.	SÜLEYMAN ÇİFTÇİ							
15	Course Lecturers:	Matema	tik 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	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:									
	Course Content:									
Week	Theoretical		Practice							
1	The indefinite integral, area. Solving problem									

2	Upper and lower sums		Solving problem								
3	The fundamental theorem of integrati	on	S	Solving problem							
4	Inequalities and improper integrals		S	Solving problem							
5	Techniques of integration		Solving problem								
6	Techniques of integration		S	Solving problem							
7	Applications of integratin(length of curves,surface of revolution)		Solving problem								
8	Midterm exam and evaluation of midt exam, repeat of previous subjects	erm	S	Solving problem							
9	Applications of integratin(volumes of revolution, work and center of gravity)		S	Solving problem							
10	Taylor's formula and estimate for the remainder		S	Solving problem							
11	Convergent series, series with positive	e terms.	S	olving problem							
12	Convergence Tests		S	olving problem							
13	Power series		s	olving problem							
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Th geg ore	ipaktbooks, References and/or Other		1.	A4First Course in Calc	ങൾ Serge Lang, V	₩2160Student					
Practica	als/Labs		2	14	2.00	28.00					
Self stu	dy and preperation		2.	Thomas Calculus, 11.	<u>ქე</u> ლი,Pearson Ad	<u>ქ</u> ციეუ⊖Wesley					
Homew	vorks			0	0.00	0.00					
Project	6		Çejik, Osman Bizim, Melingöztürk; Dora Yavınları, 2010								
Field S	tudies		0 0.00 0.00								
Midtern	n exams		A	nmet Tekcan, Betül Ge	GezeroOsman Bizim; PongoYayıı						
Others				14	4.00	56.00					
FireMF	FARNING ACTIVITIES	NUMBE	W	FIGHT	13.00	13.00					
	/ork Load					180.00					
Midderw	ଚ ଳ୍ୟ∂ ସଧ⁄ 30 hr	1	40	0.00		6.00					
ECTS Credit of the Course						6.00					
Home work-project 0 Final Exam 1				0.00							
Final E	xam	60.00									
Total		2	10	100.00							
Contribution of Term (Year) Learning Activities to Success Grade			40.00								
Contrib	ution of Final Exam to Success Grade)	60.00								
Total			100.00								
Measur Course	rement 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	2	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	4	4	2	2	2	1	1	1	1	1	1	1	0	0	0	0
ÖK8	5	5	3	3	4	1	1	2	2	1	1	1	0	0	0	0
		l	LO: L	_earr	ning (Objec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	<u> </u>		
Contrib ution Level:	1 very low 2 low				3 Medium			4 High			5 Very High					