CALCULUS II (INTEGRAL CALCULATIONS)									
1	Course Title:	CALCUL	US 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 f	ace						
14	Course Coordinator:	Prof. Dr.	SÜLEYMAN ÇİFTÇİ						
15	Course Lecturers:	Matematik 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:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1	The indefinite integral, area.		Solving problem						

2	Upper and lower sums		S	Solving problem							
3	The fundamental theorem of integrati	ion	S	Solving problem							
4	Inequalities and improper integrals		S	Solving problem							
5	Techniques of integration		S	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	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	Solving problem							
Activit	ies			Number	Duration (hour)	Total Work Load (hour)					
Th pep re	Dat books, References and/or Other		1.	A4First Course in Calc	Bug Serge Lang, V	₩22160©Student					
Practica	als/Labs		ما	14	2.00	28.00					
Self stu	dy and preperation		2	Tp omas Calculus, 11.	zdition, Pearson Addiscon Wesley						
Homew	vorks		ם	0	0.00 0.00						
Project	8		Çejik, Osman Bizim, Metin Öztürk; Dora Yayınları, 2010								
Field S	tudies			0 0.00 0.00							
Midtern	n exams		A	hmet Tekcan, Betül Ge	;₄ ǥṛ₀⊚sman Bizim;	₽<u>9</u>i@ 0Yayınları,					
Others	•			14	4.00	56.00					
Final E	Aams FARNING ACTIVITIES	NUMBE	W	1 FIGHT	13.00	13.00					
Total W	Vork Load					180.00					
Mielsew	ନ୍ୟି ଟି ସିଧ/ 30 hr	1	4	0.00		6.00					
ECTS (Credit of the Course	L -				6.00					
Home v	work-project	0	0.	0.00							
Final E:	xam	1	60.00								
Total		2	1(100.00							
Succes	oution of Term (Year) Learning Activitie as Grade	es to	40.00								
Contrib	oution of Final Exam to Success Grade	9	60.00								
Total			1(100.00							
Measur 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 3	PQ14	PQ15	PQ16
ÖK1	4	3	3	1	3	1	1	1	1	1	1	1	1	1	0	0
ÖK2	4	3	2	1	3	2	1	2	1	1	1	1	1	1	0	0
ÖK3	5	4	4	2	4	2	1	2	1	1	1	1	1	1	0	0
ÖK4	5	4	3	2	3	2	1	1	1	1	1	1	1	1	0	0
ÖK5	5	3	4	2	3	2	1	1	1	1	1	1	1	1	0	0
ÖK6	5	3	3	2	3	2	1	1	1	1	1	1	1	1	0	0
ÖK7	4	2	2	1	2	2	1	1	1	1	1	1	1	1	0	0
ÖK8	5	3	4	2	3	2	1	1	1	1	1	1	1	1	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	b 1 very low :			2 low			3 Medium			4 High			5 Very High			