	CALCULUS II (INTE	GRAL 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	0								
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to face									
14	Course Coordinator:	Doç. Dr. SİBEL KOPARAL									
15	Course Lecturers:	Matematik bölümünün tüm öğretim üyesi ve öğretim görevlileri									
16	Contact information of the Course Coordinator:	E-posta: sibelkoparal@uludag.edu.tr Telefon: +90 224 2942846 Adres: Bursa 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:	The course enables to use the math skills they have gained for the analysis and solution of complex problems that will be encountered in engineering applications.									
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		Theoretical Practice								

1	The indefinite integral,area.		S	Solving problem							
2	Upper and lower sums		S	Solving problem							
3	The fundamental theorem of integrati	on	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)		S	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	S	olving problem								
12	Convergence Tests		S	olving problem							
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	and their some applications		14	3.00	42.00						
Practica	als/Labs			14	2.00	28.00					
Self stu	dy and preperation		S	enes mira Eailion, Aa ompany, ISBN:0-201-0	nson-vvesiey Publi: 4148-0	28.00					
Homew	vorks			0	0.00	0.00					
Project	6		3) Temel Matematik, Basti Çelik, İsmail Nac Cangül, Ni								
Field S	tudies		0 0.00 0.00								
Midtern	n exams		N	Naci CANGÜL, Nobel YayınAkademik Yayıncılık,2015							
Others				14	56.00						
Fi Ra E	Assesment			1	13.00	13.00					
Total W	/ork Load					193.00					
Total W	ဂုtk၂၃၉ရာ/ 30 hr	1	4	0.00		6.00					
ECTS Credit of the Course						6.00					
Home v	vork-project	0	0.00								
Final E	xam	1	60	60.00							
Total		10	100.00								
	ution of Term (Year) Learning Activities s Grade	es to	40	40.00							
Contrib	ution of Final Exam to Success Grade)	60.00								
Total			10	100.00							
Measur Course	·	ed in the		Classic or multiple-choice exam. (Midterm and Final Exam)							
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	0	4	5	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	4	0	5	4	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	3	0	3	3	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	4	0	4	5	0	0	0	0	0	0	0	0	0	0	0
ÖK5	3	5	0	3	3	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	3	0	4	4	0	0	0	0	0	0	0	0	0	0	0
ÖK7	4	4	0	3	5	0	0	0	0	0	0	0	0	0	0	0
ÖK8	3	4	0	3	4	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	on				3 Medium			4 High			5 Very High					