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:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. İSMAİL NACİ CANGÜL							
15	Course Lecturers:	Matematik bölümünün tüm öğretim üyesi ve öğretim görevlileri							
16	Contact information of the Course Coordinator:	Prof. Dr. İsmail Naci Cangül E-posta: cangul@uludag.edu.tr Telefon: +90 224 2941756 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:	to give the mathematics knowledge needed in 4 years.							
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.		S	Solving problem							
2	Upper and lower sums		S	Solving problem							
3	The fundamental theorem of integrat	tion	s	olving problem							
4	Inequalities and improper integrals		S	olving 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 mid exam, repeat of previous subjects	term	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	<b>,</b>	S	Solving problem							
11	Convergent series, series with positive	s	olving problem								
12	Convergence Tests		S	olving problem							
Activit				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	iviaterials. dy and preperation		S C	erres mira Edition, Ad ompany, ISBN:0-201-(	nson-vvesiey Publi 14148-0	28.00					
Homew	vorks			_	0.00	0.00					
Project	6		3	Temel Matematik, Ba	asri Çelik, İsmail Naç Cangül, Nis						
Field S	tudies			0	0.00						
Midtern	n exams		5	Genel Matematik (Dif	erensiyel ve İntegra	l'Hesap),					
Others				14	4.00	56.00					
Final E	<del>(ams</del> Assesment			1	13.00	13.00					
Total W	/ork Load					193.00					
Total w	ork load/ 30 hr	R				6.00					
	Credit of the Course	0				6.00					
Quiz		0.00									
	vork-project		0.00								
Final E	xam	1		60.00							
Total	Constant of the second	2	_	100.00							
	ution of Term (Year) Learning Activiti s Grade	es to	4	40.00							
Contrib	ution of Final Exam to Success Grade	e	6	60.00							
Total			10	100.00							
Measur Course	rement and Evaluation Techniques U	w	written exam								
24	ECTS / WORK LOAD TABLE										
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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	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0
ÖK2	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
ÖK8	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ion				3 Medium			4 High			5 Very High					