		CAL									
1	Course Title:	CALCULUS II									
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:	English									
13	Mode of Delivery:	Face to face									
14	Course Coordinator:	Prof. Dr. İSMAİL NACİ CANGÜL									
15	Course Lecturers:	Matemat	tik bölümünün tüm öğretim üyesi ve öğretim görevlileri								
16	Contact information of the Course Coordinator:	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:	It gives the mathematical knowledge needed by engineers.									
20	Learning Outcomes:										
		1 To prepare the basic infrastructure of Mathemat									
		2	Introduce the important theorems of mathematics and its applications								
		3	Effectively learn how to use mathematics in solving engineering problems.								
		4	Integral and its applications of the calculations to know								
		5	Create mathematical background for other courses.								
		6									
		7									
		8									
		9									
10											
21	Course Content:										
		Co	ourse Content:								
Neek	Theoretical		Practice								

	1					•.					6.0									
1	_	The indefinite integral and its properties.									Examples of the indefinite integral.									
2		ethods of indefinite integral									Examples of the methods of indefinite integral.									
3		oplications of indefinite integral									Examples of the applications of indefinite integral.									
4		e definite integral and its properties emann sums, Riemann integral and its									Examples of the definite integral									
5	prop	ertie	s					its		Examples of the Riemann sums and Riemann integral										
6	calcu	ulus				s of inte	-		Ca	Examples of the the fundamental theorems of integral calculus										
7	The	meth	nods c	of num	erical	integra	al		E	Examples of the methods of numerical integral										
8	The	impr	oper i	ntegra	I and	its pro	pertie	S	E	Examples of the improper integral.										
9	The	appl	icatior	ns of d	efinite	e integi	ral and	d area	i Ez	Examples of the applications of definite integral										
10	The	volu	mes a	nd len	igth o	f a plar	ne cur	ve	E	kample	s of th	e volum	les and	length	of a pla	ane curv	е			
11		The area of surface of revolution, moments and center of mass									s of the er of m		of surfa	ce of r	evolutio	on, mom	ents			
12	The	he sequences, series and their properties									s of th	e seque	ences ai	nd seri	es					
13	Test serie		conve	ergeno	ce of s	series,	altern	ating	E	kample	s of th	e tests f	for conv	rgen	ce of se	eries				
14		The power series and representation of functions by power series.									Examples of the The power series and representation of functions by power series									
22	Mate			ferenc	es an	id/or O	ther		Bi Ci Ci	Genel Matematik, Diferensiyel ve İntegral Hesap, O. Bizim, A. Tekcan, B. Gezer. Calculus Concepts and Contexts, J. S. Stewart Calculus and Analytic Geometry, G. B. Thomas, R. I.										
	Activites									Numt	ber		Dura	Duration (hour) Total Work Load (hou						
TEBM	TERM & BRNING ACTIVITIES NUMBE												3.00				42.00			
Practic	Practicals/Labs									14			2.00	2.00			28.00			
Self stu Quiz	udy ai	nd pi	epera	tion			0)	0	odð				3.00			42.00			
Homev	works									0				0.00			0.00 0.00			
Project Final F	ecis 1									50 00				0.00						
Field S	Studies									0				0.00						
Midterr Contrib	Midterm exams Contribution of Term (Year) Learning Activities to								5	50,00				7.00			14.00			
Others	hers									1			21.00	21.00			21.00			
Einalrit			inal E	xam to	o Suc	cess G	rade		5	50.00 28.00					28.00					
Total V	Vork L	_oad														189.00				
Total w Moasu	romo	nt on	d Eva		n Too	hniquo	م الم	d in th		ritton o	vam			5.83						
ECTS 24	-					TAB	1 6			6.00										
	<u> </u>	13/									<u></u>		0 = 0							
25)			CON	IRIE	SUTIC	ON O						STO	PROC	GRAM	ME				
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	ť	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0			
ÖK2	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0			
ÖK3	ť	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0			
ÖK4	4	4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0			
												I				1				

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