		CAL	CULUS II						
1	Course Title:	CALCUL	US II						
2	Course Code:	MAT1072							
3	Type of Course:	Compuls	sory						
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: 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	To prepare the basic infrastructure of Mathematics.						
		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							
0.4	Course Content	10							
21	Course Content:	0-	Nurse Contents						
Mode	Theoretical	Co	Practice						
vveek	Theoretical								

1	The indefinite integral and its propert	ies.	Examples of the indefinite integral.						
2	Methods of indefinite integral		Examples of the methods of indefinite integral.						
3	Applications of indefinite integral		Examples of the applications of indefinite integral.						
4	The definite integral and its propertie	s	Examples of the definite integral						
5	Riemann sums, Riemann integral and properties	d its	Examples of the Riemann sums and Riemann integral						
6	The fundamental theorems of integra	ıl	Examples of the the fundamental theorems of integral calculus						
7	The methods of numerical integral		Examples of the methods of numerical integral						
8	The improper integral and its propert	ies	Examples of the improper integral.						
9	The applications of definite integral a	nd area	Examples of the applications of definite integral						
10	The volumes and length of a plane co	urve	Examples of the volumes and length of a plane curve						
11	The area of surface of revolution, mo and center of mass	ments	Examples of the area of surface of revolution, moments and center of mass						
12	The sequences, series and their prop	perties	Examples of the sequences and series						
13	Tests for convergence of series, alter series	rnating	Examples of the tests for convergence of series						
14	The power series and representation functions by power series.	of	Examples of the The power series and representation of functions by power series						
22	Textbooks, References and/or Other Materials:		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. L. Finney						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midtern	n Exam	2	50.00						
Quiz		0	0.00						
Home work-project 0			0.00						
Final Exam 1			50.00						
Total		3	100.00						
Contribution of Term (Year) Learning Activities to Success Grade			50.00						
Contrib	oution of Final Exam to Success Grade		50.00						
Total			100.00						
Measurement and Evaluation Techniques Used in the Course									
24	ECTS / WORK LOAD TABLE								

Activites		Number	Duration (hour	Total Work Load (hour)						
Theoretica		14	3.00	42.00						
Practicals/I	Labs	14	2.00	28.00						
Self study	and preperation	14	3.00	42.00						
Homework	S	0	0.00	0.00						
Projects		0	0.00	0.00						
Field Studi	es	0	0.00	0.00						
Midterm ex	rams	2	7.00	14.00						
Others		1	21.00	21.00						
Final Exam	ns	1	28.00	28.00						
Total Work	Load			175.00						
Total work	load/ 30 hr			5.83						
ECTS Cred	dit of the Course			6.00						
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS									
	PO1 PO2 PO2 PO4 PO5 PO5 PO5 PO2 PO0 PO1 PO11 PO12 PO1 PO14 PO15 PO16									

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	5	4	1	0	5	0	0	5	0	0	0	0	5	0	0	0
ÖK2	5	5	3	0	3	0	0	2	0	0	0	0	2	0	0	0
ÖK3	5	5	5	0	5	0	0	4	0	0	0	0	4	0	0	0
ÖK4	4	3	1	0	4	0	0	3	0	0	0	0	2	0	0	0
ÖK5	5	5	5	0	5	0	0	4	0	0	0	0	4	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low 2 ution Level:		2 low		3 Medium			4 High			5 Very High						