	CALCULUS II (INTE	GRAL CALCULATIONS)							
1	Course Title:	CALCUL	US II (INTEGRAL CALCULATIONS)							
2	Course Code:	MAT107	2							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	cle							
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 f	face							
14	Course Coordinator:	Prof. Dr.	OSMAN BİZİM							
15	Course Lecturers:	Matemat	tik bölümünün tüm öğretim üyesi ve öğretim görevlileri							
16	Contact information of the Course Coordinator:	E-posta: obizim@uludag.edu.tr Telefon: +90 224 2941757 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:	To develop the ability of students to think analytically and produce solutions to problems in their professional lives.								
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								
		10								
21	Course Content:	_	•							
10.5		Co	ourse Content:							
Week	Theoretical		Practice							

24	ECTS / WORK LOAD TABLE										
2013	Gredit of the Godise		Įυ	 ndergraduate Educat	ion.	0.00					
Мозец	rork load/ 30 hr roment and Evaluation Tochniques Us Credit of the Course	end in the	Įv/	assurament and ava	luation are performe	5.83 d according to 6.00					
	Vork Load					175.00					
	Manual Exam to Success Grade	9	5	0.00	28.00	28.00					
Others				1	21.00	21.00					
	m exams oution of Term (Year) Learning Activitie	es to	5	2 100	7.00	14.00					
Field S		T T	_	0	0.00	0.00					
Project Final F		1	5	000	0.00	0.00					
Homew	vorks			0	0.00	0.00					
Self stu Quiz	ady and preperation	0	0	d∂	3.00	42.00					
	als/Labs			14	2.00	28.00					
TERMe	LECARNING ACTIVITIES	NUMBE	W	EKGHT	3.00	42.00					
Activit	tes		IC.	Number	Duration (hour)						
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.								
14	The power series and representation functions by power series.	of	Examples of the The power series and representation of functions by power series								
13	Tests for convergence of series, alter series		Ε	xamples of the tests t	or convergence of s	eries					
12	The sequences, series and their prop	perties	Е	xamples of the seque	ences and series						
11	The area of surface of revolution, mo and center of mass	ments		xamples of the area nd center of mass	of surface of revolut	ion, moments					
10	The volumes and length of a plane c	urve	Е	xamples of the volum	es and length of a p	lane curve					
9	The applications of definite integral a	nd area	Е	xamples of the applic	ations of definite into	egral					
8	The improper integral and its propert	ies	Е	xamples of the impro	per integral.						
7	The methods of numerical integral		Е	xamples of the metho	ods of numerical inte	gral					
6	The fundamental theorems of integra	al	Examples of the the fundamental theorems of integral calculus								
5	Riemann sums, Riemann integral an properties	d its	Examples of the Riemann sums and Riemann integral								
4	The definite integral and its propertie	S	Е	Examples of the definite integral							
3	Applications of indefinite integral		Examples of the applications of indefinite integral.								
2	Methods of indefinite integral		Examples of the methods of indefinite integral.								
1	The indefinite integral and its propert	ies.	ĮΕ	xamples of the indefi	nite integral.						

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