	CALCULUS II (	INTE	GRAL CALCULATIONS)							
1	Course Title:	CALCULUS II (INTEGRAL CALCULATIONS )								
2	Course Code:	MAT1082								
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:	There are no prerequisites.								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Doç.Dr. ESEN İYİGÜN								
15	Course Lecturers:	Prof.Dr.Kadri Arslan Yrd.Doç.Dr.Sezayi Hızlıyel								
16	Contact information of the Course Coordinator:	e-mail: esen@uludag.edu.tr phone: 0.224.2941766 address: Uludağ University, Art and Science Faculty, Department of Mathematics,16059, Bursa.								
17	Website:									
18	Objective of the Course:	The aim of the course is to make the students gain the basic subjects of mathematics, to teach the notions of integrals, techniques of integration, applications of integration, further applications of integration, sequences, series and the related notions.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Data detection, evaluation and use the data on suitable places for problems							
		2	The students learn what does integral mean, how to calculate an integral and applications of integration.							
		3	The students know how to solve a problem.							
		4								
		5								
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		7								
		8								
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	I	10								
21	Course Content:									
10.		Co	ourse Content:							
	Theoretical		Practice							
1	The indefinite integral and continuou functions.	S	Problems solving.							

2	Upper and lower sums and the futheorems.	ndamental	Р	Problems solving.							
3	Definite integral and Riemann su	ms.	Р	Problems solving.							
4	Inequalities and improper integra	ls.	Р	Problems solving.							
5	Substitution, integration by parts fractions.	and partial	Р	Problems solving.							
6	Trigonometric integrals, binomial exponential substitutions.	integrals,	Р	Problems solving.							
7	Account the length of the curve a calculation.	nd volume	Р	Problems solving.							
8	Midterm Exam+Repeating course	es	Р	Problems solving.							
9	Area and volume calculation of so revolution	urfaces of	Р	Problems solving.							
10	Account area and arc length in po coordinates	olar	Р	Problems solving.							
11	Sequences ve convergence of se	quences.	Р	roblems solving.							
12	Series, series with positive terms test, alterne series, power series, test and taylor series.			Problems solving.							
13	Multiple integrals.		Р	roblems solving.							
14	Applications of multiple integrals.		Р	roblems solving.							
22	Textbooks, References and/or Of Materials:	her		1. Prof. Dr.Mustafa Balcı, 2003, Genel Matematik I, Balcı Yayınları,Cilt I, 2.Baskı, ISBN-975-6683-00-7,Ankara,418							
Activites				Number	Duration (hour) Total World Load (hou						
Theore	eical		6	<del>/00, romorro conor</del> 18 <sup>4</sup> s.	3.00	42.00					
Practic	:als/Labs			14	2.00	28.00					
	IASSESTITETIC Lidy and preperation			14	2.00	28.00					
Homev	vorks	INIIMDI	- 114	0	0.00	0.00					
Priditect	ts Exam	1	4	0160	1.00	14.00					
Field S	Studies			0	0.00	0.00					
Modtrer	workapnsject	0	0	<b>d</b> 0	10.00	10.00					
Others		_		14	3.00	42.00					
Final E	xams	2	1	00.00	16.00	16.00					
Total V	Vork Load					180.00					
<b>FUSION</b>	ଚିଚାର୍ଟ (ଶିକ୍ଷିଷି/ 30 hr					6.00					
ECTS	Credit of the Course					6.00					
Total			1	00.00							
Measu Course	rement and Evaluation Techniques	s Used in th	ne								
24	ECTS / WORK LOAD TAB	LE									
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME										

## CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2

ÖK3	5	5	5	4	5	0	0	4	0	0	0	0	0	0	0	0
Contrib 1 very low ution Level:		-	1	ning C	bjec		s P Medi			m Qu 4 Higl	alifica 1			y High		