	BACI	IS MA	THEMATICS II							
1	Course Title:	BACIS N	MATHEMATICS II							
2	Course Code:	MAT107	6							
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:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Doç. Dr.	SİBEL KOPARAL							
15	Course Lecturers:	Matema	tik bölümünün tüm öğretim üyesi ve öğretim görevlileri							
16	Contact information of the Course Coordinator:	Telefon: Adres: E	: sibelkoparal@uludag.edu.tr : +90 224 2942846 Bursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik 16059 Görükle-Bursa-TÜRKİYE							
17	Website:									
18	Objective of the Course:	is to gain knowledge of basic mathematics to students, to improve the ability of finding solution to problems and analytical thinking.								
19	Contribution of the Course to Professional Development:	To be all knowled	ble to look at problems from multiple angles by having basic ge.							
20	Learning Outcomes:									
		1	Knows the concept of derivative							
		2	Learns the rules of calculating derivative							
		3	Calculates derivative of functions							
		4	Sketches graphs of functions							
		5	Knows the concept of indefinite integral							
		6	Applies the methods of calculating integral							
		7	Calculates area, volume and length of curve by definite integral.							
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
	Theoretical		Practice							
1	The definiton of derivative, geometric meaning of derivative	<del></del>								
2	The rules of calculating derivative									

3	The chain rule, tangent and normal li	ine								
4	The derivative of some special functi	ions								
5	Increasing and decreasing functions, extremums	,								
6	Maximum and minimum problems									
7	Convexity and concavity of curves									
8	Asymptotes, the types of asymptote									
9	Midterm exam and evaluation of mid exam, repeat of previous subjects	term								
10	Sketch the graph of functions									
11	Basic properties of indefinite integral									
12	The methods of calculating indefinite	integral								
13	Definite integral and area									
14	Volume and length of curve									
22	Textbooks, References and/or Other Materials:		1) Temel Matematik, Basri Çelik, İsmail Naci Cangül, Nisa Çelik, Osman Bizim, Metin Öztürk; Dora Yayınları, 2010.  2) Matematik Cilt I, Çeviri Editörü Prof Dr İsmail Naci CANGÜL, Nobel Yayınevi 2013.  3) Genel Matematik, Prof Dr Ali Dönmez, Beta yayınları 2000							
Activit	res		Number	Duration (hour)	Total Work Load (hour)					
Theore	ticai n Exam	1	40 <sup>1.0</sup> 0	2.00	28.00					
	als/Labs		0	0.00	0.00					
Selfsty	ldy and preperation	0	o.d <del>0</del>	2.00	28.00					
Homew	1		0	0.00	0.00					
Project	s	2	100.00	0.00	0.00					
Field S	tudies		0	0.00	0.00					
<b>Midters</b>	ns extende		1	10.00	10.00					
Others			14	1.00	14.00					
Final E	xams		100.00	10.00	10.00					
Total W	/ork Load				90.00					
Cotadse	ork load/ 30 hr		the Rules & Regulations	of Bursa Uludağ U	n3lw2e0rsityon					
	Credit of the Course				3.00					
25		OF LEAF	RNING OUTCOMES	TO PROGRAM	IME					

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	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	4	0	0	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 Medium			4 High			5 Very High					