		SET	THEORY							
1	Course Title:	SET THE	EORY							
2	Course Code:	MAT202	0							
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	le							
5	Year of Study:	2								
6	Semester:	4								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr.	BASRİ ÇELİK							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	basri@uludag.edu.tr 0224.2941762								
17	Website:									
18	Objective of the Course:		arns to essentials of set theory and establish the set of natural mbers and other number sets as a mathematical structure.							
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Knows the concept of set.							
		2	Calculates the set operations.							
		3	Knows the cardinals of finite and infinite sets.							
		4	Knows the concept of ordered sets and equivalent ordered sets.							
		5	Can construct the set of Natural numbers with using Peano axioms.							
		6	Can construct the set of Natural numbers with using Cardinal numbers.							
		7	Knows how to define operations in natural numbers.							
		8	Can construct the set of integers.							
		9	Can construct the set of rational numbers.							
		10	Improves the ability of abstract thinking.							
21	Course Content:									
10.		Co	purse Content:							
	Theoretical		Practice							
1	Description of course	h thar-								
2	Cardinal numbers and operations wit									
3	Construction of the set of Natural nur with cardinal numbers.									
4	The proof of Induction Theorem and applications.	its								

ÖK1	2	5		1	4	5	1	1	3	3	2	0	0	0	0	0	0			
	Р	Q1 P	Q2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
25									QUA	LIFIC	ATIC	NS ———			GRAM	ME				
ECTS Credit of the Course									4.00											
TO 22 WEE 1981/3WORK LOAD TABLE															4.00					
Total Work Load															120.00					
Final E	xams									0.00 1			4.00			4.00				
Midtern Contrib Others	ution (of Fin	aLE	kam to	Suc	cess G	irade			<u>'00</u> 14			2.00			28.00				
Field S										0			4.00			0.00 4.00				
حانسه شحم		<u> </u>	····· /\	/aa\		: A	ممندنسنه	. 4.	146	0			0.00			0.00				
Homew Total Project							IZ			0 0.00			0.00			0.00				
Self stu	V0m	d pre	pera	tion						14			3.00			42.00				
Practica								,		0			0.00			0.00				
Theore	tical	п)	40	14			3.00			42.00				
Activit					_	_											Total Work Load (hour)			
										No:43, 1984, Ankara. 3)Sezgisel Kümeler Kuramı, Ali Nesin, Nesin Yayıncılık,2. Baskı, 2008, İstanbul.										
									Ζü	2)Soyut Matematik, Sait Akkaş, H. Hilmi Hacısalihoğlu, Zühtü Özel, Arif Sabuncuoğlu, gazi üniversitesi Yayın										
22	Textb Mate		, Ref	erenc	es an	id/or O	ther			1)Abstract Algebra, Roger Godement, Hermann Publishers, 1968, Paris.										
14			OI II	IILE	3 0 15.															
12				n ratio nfinite		umbers	S.													
11						rationa		bers.												
10	Opera	ations	with	n integ	gers.	nteger														
9	Midte								_											
8	used numb	in the ers, a	con and t	struct heir re	ion of	he two f the se														
7	Const					Natura	l num	bers												
6	Comb	oinato	ric c	alcula	tions.															
5	Funct	tions.																		

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	2	5	1	4	5	1	1	3	3	2	0	0	0	0	0	0
ÖK2	3	4	1	2	4	1	2	2	2	1	0	0	0	0	0	0
ÖK3	1	4	1	3	4	1	2	3	1	1	0	0	0	0	0	0
ÖK4	2	4	1	2	4	1	2	3	2	1	0	0	0	0	0	0

ÖK5	2	5	1	2	5	1	1	2	2	1	0	0	0	0	0	0	
ÖK6	1	4	1	3	4	1	2	3	0	0	0	0	0	0	0	0	
ÖK7	3	5	1	3	5	1	3	2	2	2	0	0	0	0	0	0	
ÖK8	1	3	1	2	4	1	3	3	2	1	0	0	0	0	0	0	
ÖK9	2	4	1	4	4	1	2	2	3	1	0	0	0	0	0	0	
ÖK10	1	5	1	3	5	1	1	2	2	1	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	ution			2	2 low		3 Medium			4 High			5 Very High				