	ABST	RACT	MATHEMATICS							
1	Course Title:	ABSTR/	ACT MATHEMATICS							
2	Course Code:	İMT1009)							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	cle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	5.00								
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	face							
14	Course Coordinator:	Doç. Dr.	Atilla Akpınar							
15	Course Lecturers:	Doç.Dr.	Atilla AKPINAR							
16	Contact information of the Course Coordinator:	Telefon: Adres: U	osta: aakpinar@uludag.edu.tr efon: +90 224 2941774 es: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik ümü 16059 Görükle-Bursa-TÜRKİYE							
17	Website:									
18	Objective of the Course:	use mat	roduce the basic concepts of mathematics on sets. To able to athematics' language. To establish the relationship between n language and mathematical language.							
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Knows detailed information about propositions.							
		2	Knows the proving methods.							
		3	Students can apply the propositions to basic electric circuits.							
		4	Knows open propositions.							
		5	Learns the basic information which will be used in set theory.							
		6	Learns the logic of quantifiers.							
		7	Recognizes the subset, universal set, union of sets, intersection of sets, complement of a set, and the sets of difference and their properties.							
		8	Learns the ordered tuples, cartesian product, graphic, relation, the inverse of a relation and their properties.							
		9	Learns finest details about graphics and relations, functional relation, function, one to one and onto functions inverse of a function and permutations.							
		10	Learns the image and inverse image properties and the numerical properties of relations and functions.							
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical		Practice							
1	Description of course.									

2	Mat	thematical p	propos	itions												
3		thods of propositions.	of. Sh	owing	g a tru	th of										
4	App	lication of	oropos	itions	to ele	ectric	circuits									
5		en propositi cept of set.		ntrodu	iction	to the	Э									
6	The	logic of qu	antifie	rs.												
7	Sub	set and un	iversal	set.												
8	diffe Mei	on, intersederence sets mbership ta erations.	and th	neir pı	roperti	ies.										
9	Mid	term and fe	edbac	k												
10		lered tuples I their prope		esian	produ	ıct, g	raphics									
11		ation, graph tion.	nic and	I the i	nverse	e of a	a									
12	Composition of graphics and relations, functional relations and functions.															
13	One to one and onto functions. Inverse of a function. Permutations.															
14	inve	ge properti erse. Nume ctions.														
Activi	ites							1	Numb	er		Dura	ation ((hour)	Total V Load (
Theore	etical							Pu	b 4ishe	rs, 196	88, Pari	s. 3.00		,	42.00	
Practio	cals/L	.abs						()			0.00			0.00	
Self st	tudy a	and prepera	ition							zel, Ari		ıс <mark>т</mark> аўфл	, gazi t	iniversi	442 i0∕0ay	ın
Home	works	6						(0.00			0.00	
Pr pje c	ctsAss	esment						()			0.00			0.00	
Field S	Studie	es						()			0.00			0.00	
Midter	rm ex	ams					K	40	00			16.00)		16.00	
Others									11			8.00			88.00	
Final E	Exam	S					0					22.00)		22.00	
Total \															210.00	
Total v	Lxaiii work	load/ 30 hr					ı		.00						7.00	
	่อนแบเ	lit of the Co		₋eam	ıng Ac	πνιπε	es to		.00						5.00	
Contril	butio	n of Final E	xam to	Suc	cess C	Grade)	60	.00							
Total								10	0.00							
Measu		ent and Eva	luation	n Tecl	hnique	es Us	sed in th	е								
24	EC	TS / WO	RK L	OAD	TAE	BLE										
25	5		CON	TRIB	BUTIC	ON (OF LE			OUTC		S TO	PRO	GRAM	ME	
1																

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	1	5	2	5	1	5	1	3	2	1	1	1	1	2	1

Contrib 1 very low ution Level:				2 low		3	Medi	ium		4 Hig	h		5 Ver	y High		
LO: Learning Objectives PQ: Program Qualifications																
ÖK10	3	1	4	3	5	1	4	2	2	1	1	1	1	1	3	1
ÖK9	2	2	5	2	4	1	5	2	3	1	1	1	1	1	3	1
ÖK8	3	2	4	2	4	1	4	1	3	1	1	1	1	1	2	1
ÖK7	3	1	5	3	5	1	4	2	2	2	1	1	1	1	3	1
ÖK6	3	1	5	3	4	1	5	1	3	1	1	1	1	1	2	1
ÖK5	2	1	4	2	5	1	5	2	2	1	1	1	1	1	2	1
ÖK4	2	2	5	2	5	1	5	2	2	2	1	1	1	1	3	1
ÖK3	2	2	4	3	5	1	5	1	2	1	1	1	1	1	3	1
ÖK2	3	2	4	2	5	1	5	2	1	1	1	1	1	3	1	1