ABSTRACT MATHEMATICS I											
1	Course Title:	ABSTR/	STRACT MATHEMATICS I								
2	Course Code:	MAT050	5								
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	cle								
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	face								
14	Course Coordinator:	Prof. Dr.	BASRİ ÇELİK								
15	Course Lecturers:	Prof.Dr.	Atilla AKPINAR								
16	Contact information of the Course Coordinator:	basri@uludag.edu.tr 0224.2941762									
17	Website:										
18	Objective of the Course:	To introduce the basic concepts of mathematics on sets. To able to use mathematics' language. To establish the relationship between spoken language and mathematical language.									
19	Contribution of the Course to Professional Development:	To be able to practice the professional applications of mathematical and geometric concepts.									
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			Practice								
1	Description of course.										
2	Mathematical propositions.										

3	Mothe	ode	of pro	of Sh	owing	a o trut	h of											
3		ethods of proof. Showing a truth of opositions.																
4	Applic	oplication of propositions to electric circuits.																
5	Open propositions. Introduction to the concept of set.																	
6	The lo	ogic	of qu	antifie	rs.													
7	Subse	et ar	nd uni	iversa	l set.													
8	differe	ence pers	e sets hip ta	and tl	neir p	ement ropertie of sets	es.											
9	Midte	rm a	and fe	edbad	ck													
10		Ordered tuples, Cartesian product, graphics and their properties.																
11	Relati relation		graph	nic and	d the i	nverse	of a											
12	Composition of graphics and relations, functional relations and functions.																	
13	function	One to one and onto functions. Inverse of a function. Permutations.																
14	Image properties under functions and its inverse. Numeric properties of relations and functions.																	
22	Textb	ook	s, Ref	ferenc	es an	d/or O	ther		1)5	Soyut N	Matem	atik I, B	asri Çe	lik, Do	ra Yayıı	nevi, 201	10,	
Activit	Activites							1	Number				Duration (hour) Total V Load (h					
Theore	tical								315	4 Sovut I	Matem	atik. Sa	3,00 Akkaş, H. Hilmi Hacisalinoğlu,					
Practic	Practicals/Labs									0				`	0.00			
Self study and preperation									14 14 14 1504, Alikara.				2.00			28.00		
Homew	vorks								C	0				0.00			0.00	
PERINCE	ŒARN	ING	ACTI	VITIES			N	UMBE	WE	WBIGHT				0.00				
Field S										0					0.00			
Midterr	Midterm exams									000						14.00		
Others	ers									14			1.00					
Final E	inal Exams									00			22.00)	22.00			
Total Work Load													134.00					
Total work load/ 30 hr								-	100.00						4.00			
ECTS (ECTS Credit of the Course								\perp							4.00		
	Contribution of Final Exam to Success Grade							_	60.00									
Total Measurement and Evaluation Techniques Used in the								100.00										
Measu Course		t an	d Eva	luatio	n Tec	hnique	s Use	d in th	ne Th	e syste	em of r	elative	evaluat	ion is a	applied.			
24	ECT	S/	WOI	RKL	OAD	TAB	LE											
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
ÖK1	0		0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	
		1				ı	l .	I	I		I			1	1		1	

ÖK2	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK3	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK4	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK5	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK6	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK7	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK8	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK9	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK10	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution			2 low			3 Medium			4 High			5 Very High			