	INFORMATION T	ECHN	IOLOGY AND CALCULUS								
1	Course Title:	INFORM	ATION TECHNOLOGY AND CALCULUS								
2	Course Code:	GKZ1007									
3	Type of Course:	Compuls	ory								
4	Level of Course:	First Cyc	ele								
5	Year of Study:	1									
6	Semester:	1									
7	ECTS Credits Allocated:	6.00									
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:	Doç. Dr.	SALİH BİRİŞÇİ								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:		Üyesi Salih BİRİŞÇİ ci@uludag.edu.tr								
17	Website:										
18	Objective of the Course:	To comprehend operations in sets. To learn the concept and types of relation and function. Logic, boolean algebra, matrix, graph theory and algorithm analysis.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Can do operations about sets.								
		2	Define the relation and function concepts, and specify the properties of their types.								
		3	Perform operations on matrix and its types.								
		4	Can include graf theory in problem solutions.								
		5	Can think algorithmically.								
		6									
		7									
		8									
		9									
	I	10									
21	Course Content:										
		Со	purse Content:								
	Theoretical		Practice								
1	Introduction-planning.										
2	Set concept and operations on sets.										
3	Set concept and operations on sets.										
4	Relations										
5	Relations										
6	Functions										

8	Boole	Boolean algebra and modern logic															
9	Matrix operations																
10	Matrix operations and determinant																
11	Graph theory and applications																
12	Graph theory and applications																
13	Algorithm analysis																
14	Algorithm analysis																
22	Textbooks, References and/or Other Materials:																
23	Asses	sme	nt						•								
TERM L	LEARN	ING	ACTI	VITIES				UMBE	WE	EIGHT							
Midtern	m Evar	m					R		40	.00							
Quiz	II Exai	''					0		0.0								
									0.0								
Final E	1 ,								_	.00							
Total	.Aum						2			0.00							
Contrib	oution (of Ta	erm (\	(ear) I	earn	ina Act				.00							
Succes			(i cai, i	Loam	ing / tot	ivitioo	10		.00							
Activites									Numb	er		Dura	tion (Total Work Load (hour)			
ଦିନ୍ଧ୍ୟନ୍ତିtical								01/	tae co	urse, n	nid-term	and end-of-year exampsoure					
Practic	Practicals/Labs									nsider)	<u>-4</u>		0.00			0.00	
Self stu	elf study and preperation								-	14						56.00	
	eworks								(0						0.00	
Project									(0 (0.00			
Field S										0						0.00	
Midtern	m exar	ns							7	1						24.00	
Others									1	14			2.00		28.00		
Final E	Exams									1			36.00		36.00		
Total V	al Work Load														186.00		
Total w	Fotal work load/ 30 hr														6.20		
ECTS Credit of the Course									6.00								
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	Р	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
											0			3		_	
ÖK1	1		3	3	2	1	1	1	1	1	1	2	1	2	2	2	1
ÖK2	2		3	3	3	2	1	1	1	1	1	3	1	2	2	2	1
ÖK3	2		3	3	3	2	1	1	1	1	1	3	1	2	2	2	1

Functions

ÖK4

ÖK5	3	5	4	4	4	4	4	3	2	4	3	3	3	4	3	3
Contrib ution Level:	ution					s P Vledi			m Qu 4 Higl		tions	5 Ver	y High			