	ΟΤΟ	MORF	FUNCTIONS I							
1	Course Title:	ОТОМО	RF FUNCTIONS I							
2	Course Code:	MAT5209								
3	Type of Course:	Optional								
4	Level of Course:	Second	Cycle							
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:	es: none								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	face							
14	Course Coordinator:	Prof. Dr.	OSMAN BİZİM							
15	Course Lecturers:	Prof. Dr.	Osman Bizim							
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi, Fen-Edebiyat Fakültesi Matematik Bölümü, Görükle Bursa-TÜRKİYE 0 224 294 17 57 / obizim@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	The aim of the course is to introduce automorphic functions by using the student's undergraduate background on the theory of complex analysis. The basic concepts of the theory of automorphic functions will be given.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Learns the linear transformations and their basic properties.							
		2	Learns the fixed points of the transformations and geometric classification of transformations.							
		3	Learns groups of linear transformations and their basic properties.							
		4	Learns discontinuous groups and their fundamental regions.							
		5	Learns finite groups and their generating transformations.							
		6	Learns ordinary and parabolic cycles, and function groups.							
		7	Learns automorphic functions and their basic properties.							
		8								
		9								
		10								
21	Course Content:									
Mash.	The exetical									
vveek	The linear transformations and their	basis								
	properties	Dasic								

2	The fixed points of the transformations and basic properties																	
3	The linear transformations and the circles																	
4	Inversion in a circle and properties																	
5	Geometric classification of linear transformations																	
6	Isometry circles and properties																	
7	group: basic	s of oro	f linea pertie	r trans s	sforma	ations a	and th	eir										
8	Discor	ntin	uous	group	s and	their p	ropert	ties										
9	Fundamental regions of discontinuous groups and their properties																	
10	Isome their p	Isometry circles of discontinuous groups and their properties																
11	Finite genera	gro atin	oups a ng trar	nd the	eir pro ations	perties	and											
12	Cyclic transformation groups and their basic properties,																	
13	Ordina prope	Ordinary and parabolic cycles and their properties,																
14	Autom	orp	ohic fu	unctior	ns and	d their p	oroper	ties										
22 Textbooks, References and/or Other Materials: Activites								[1] [2] [3]	Auton Comp Comp Numb	norphic Ilex Ana Ilex Fui Der	Functi alysis, l nctions	ons, L. L. Ahlfo , <u>G. A</u> Dura	Ford, rs, <u>Jones,</u> Ition (<u>D. Sing</u> hour) ⁻ 	erman Total Work Load (hour)			
Theore	Theoretical R									4			3.00	3.00 42.00				
Practica	Practicals/Labs									0					(0.00		
Quiz Self stu	Self study and preperation									0.99					-	70.00		
Homew	Homeworks									0				0.00			0.00	
Final E	nai Exam									9.00			0.00	0.00				
Field S	Field Studies)			0.00	0.00			0.00	
Midtern	ontribution of Lerm (Year) Learning Activities to									0.90					(0.00		
Others	JESS GIAGE									14						70.00		
Einal E	Exams									0.00			43.00	1		43.00		
Total W	Total Work Load									<u> </u>						225.00		
Maasw	Heasurement and Evaluation Techniques Used in the								ie						1	7.50		
ECTS (ECTS Credit of the Course														(6.00		
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	PO	21	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	5		5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	
ÖK2	5		5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	
ÖK3	5 5 5 5 5 5 5								5	5	5	0	0	0	0	0	0	
ÖK4	5		5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	

ÖK5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0
ÖK6	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0
ÖK7	5	5	5	5	5	5	5	5	5	5	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					