	UNIV		FUNCTIONS I					
1	Course Title:	UNIVAL	ENT FUNCTIONS I					
2	Course Code:	MAT610	5					
3	Type of Course:	Optional						
4	Level of Course:	Third Cy						
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	face					
14	Course Coordinator:	Prof. Dr.	SİBEL YALÇIN TOKGÖZ					
15	Course Lecturers:	Doç. Dr.	Elif Yaşar					
16	Contact information of the Course Coordinator:	syalcin@uludag.edu.tr, 0(224)2941758, B.U.Ü. Fen Edebiyat Fakültesi Matematik Bölümü, 16059 BURSA						
17	Website:							
18	Objective of the Course:	To teach	the basic subjects of the Geometric Functions Theory					
19	Contribution of the Course to Professional Development:	Knows th	ne basic properties of analytic univalent functions.					
20	Learning Outcomes:							
		1	He/she learns the basic properties of the univalent functions					
		2	He/she uses the area theorem in the solution of the coefficient problem					
		3	He/she relates between the univalent functions having a pole and the analytic univalent functions					
		4	He/she solves the extremal problems fort he subclasses of the analytic univalent functions.					
		5	He/she solves the radius problems					
		6	He/she gets the integral represents of the functions with positive real part.					
			He/she the relation between convex and starlike functions					
		8	He/she knows the relation between typically real functions and the functions with positive real part.					
		9	He/she gets the inequalities of coefficient of the typically real functions					
		10	He/she defines the new classes of the univalent functions.					
21 Course Content:								
Made	Theoretical	Durse Content:						
vveek	Theoretical The basic properties of the univalent	+	Practice					
	functions	•						
2	Some Area Theorems							
3	The bounded univalent functions							

4	The ur	ivalent	functio	ons ha	iving a	pole												
5	Transfe to right	ormation half pl	on of th ane pro	e ranç oblem	ge from s	the u	nit dis	k										
6	The dia Conjec		Theor	ems,	Robert	son												
7	The fu	ne functions with positive real part																
8	The co proper	nd star	like fu	Inction	s and	their												
9	The ex	tremal	proble	ms an	d radiu	is prol	olems											
10	Alpha	convex	and al	pha s	tarlike	functio	ons											
11	Alpha	piral f	unction	s and	their p	ropert	ies											
12	The typ proper		real fur	octions	s and s	ome c	of their	•										
13	The de univale		studies ctions.	s of th	e sbcla	ISSES	of the											
14		studie defined		propert	ies of	the												
								2-) 3-) Sp 4-)	 1-) Peter Duren ; Univalent Functions, Springer-Verlag 2-) A.W.Goodman ; Univalent Functions I-II 3-) G.Schober ; Univalent Functions and selected topics, Springer-Verlag 4-) C. Pommerenke ; Univalent Functions , Vandenhoeck & Ruprecht in Göttingen 									
Activites								Numb	er		Dura	ition (· · ·	Total Work Load (hour)				
Theore	tical					0		0,0	14			3.00			42.00			
	als/Lab	5)			0.00			0.00			
Self stu	idy and	prepe	ration						14			6.00	6.00			84.00		
Homew)			0.00			0.00			
Project	s	T			·	<u> </u>	1.								0.00			
Field S	tudies	<u> </u>	<u>, v AAF</u>)			0.00			0.00			
Midtern Contrib	n exam	Final	Exam t	o Suc	cess G	rade		10	100.00						0.00			
Others									0						0.00			
Final E	Final Exams														54.00			
Total Work Load														180.00				
								6.00										
ECTS (Credit o	f the C	ourse												6.00			
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	PG	1 PQ2	2 PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	5	5	5	1	5	4	5	4	5	5	0	0	0	0	0	0		
ÖK2	5	5	5	1	5	4	5	4	5	5	0	0	0	0	0	0		
ÖK3		1-	- -	4	5	4	5	4	5	5	0	0	0	0	0	0		
UNJ	5	5	5	1	5			•	–	ľ	Ĩ	Ĵ.			-	Ŭ		

ÖK5	5	5	5	1	5	4	5	4	5	5	0	0	0	0	0	0
ÖK6	5	5	5	1	5	4	5	4	5	5	0	0	0	0	0	0
ÖK7	5	5	5	1	5	4	5	4	5	5	0	0	0	0	0	0
ÖK8	5	5	5	1	5	4	5	4	5	5	0	0	0	0	0	0
ÖK9	5	5	5	1	5	4	5	4	5	5	0	0	0	0	0	0
ÖK10	5	5	5	1	5	4	5	4	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				