RIEMANN SURFACES I											
1	Course Title:	RIEMAN	IN SURFACES I								
2	Course Code:	MAT610	03								
3	Type of Course:	Optional	ı								
4	Level of Course:	Third Cy	rcle								
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:	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 give basic properties of the theory of the Riemann surfaces. So have the ability conduct original research for future studies.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Learns algebraic functions, meromorphic functions and analytic functions.								
		2	Learns topological spaces, topological transformation groups and manifolds.								
		3	Learns elliptic functions and periodic functions.								
		4	Learns general properties of elliptic functions.								
		5	Learns analytic and meromorphic continuation.								
		6	Learns the Monodromy theorem, fundamental group, branch point and monodromy group.								
		7	Learns Riemann surfaces and Riemann surfaces of some special functions.								
		8									
		9									
		10									
21	Course Content:										
		Co	purse Content:								
Week			Practice								
1	Algebraic functions, meromorphic fu and analytic functions and their prop										

2	Topolog transfor their pro			olds a	ınd												
3	Elliptic f	unctio	ns, pei					lic									
4	Topolog	•															
5	Uniform series a							1									
6	Weierst	rass P	i functi	ion an	id its p	ropert	ies.										
7	The fiel		iptic fu	nction	ns and	its											
8	The cor	elliptic	function	ons wi	ith												
9	Topolog elliptic f	es of o	double	period	dic												
10	Meromo continua					s.											
11	Analytic	with	power	series	S.												
12	Regular and singüler points and their properties, the Monodromy theorem and its properties.																
13	The fun	damer	ital gro	up ar	nd its p	ropert	ies.										
14																	
22	Textboo	oks. Re	ferenc	es ar	nd/or O	ther		[1	1 Introd	luction	to Rier	nann Sı	ırfaces	s. G. Sp	ringer.		
Activit	Activites								Numb	er		Dura	Duration (hour)			Total Work Load (hour)	
TERMA	TERM LEARNING ACTIVITIES NUMBE									МЕЮНТ 3.00					42.00		
Practic	Practicals/Labs									0 0.00 0.00					0.00		
	idy and p	prepera	ation			C)		0.00				5.00			70.00	
Homev	vorks								0		0.00				0.00		
Finale						1		1	100.00				0.00				
Field S									0			0.00	0.00			0.00	
Contrib	n exams oution of	Term (Year)	Learn	ina Ac	tivities	to	0	00 14			5.00			70.00		
	ners পোচিপোটাৰ of Final Exam to Success Grade									100.00			13.00			13.00	
	Vork Loa		xam t	o Suc	cess G	rade		[1]	100.00				195.00				
				_									6.50				
	Total work load/ 30 hr Measurement and Evaluation Techniques Used in the ECTS Credit of the Course														5.00		
24	ECTS	/ WO	RK L	OAD	TAB	LE											
25			CON	TRIE	BUTIC	ON O			NING ALIFIC			S TO	PRO	GRAM	ME		
	PQ ²	1 PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	8 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						