	RIE	MANN	SURFACES I							
1	Course Title: RIEMANN SURFACES I									
2	Course Code:	MAT6103								
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
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	4 Learns general properties of elliptic functions.							
		5								
		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:	Course Content: Course Content:								
Week	Theoretical		Practice							
1	Algebraic functions, meromorphic functions									
	and analytic functions and their properties.									

2	trans	sform				ogical manifo	olds a	nd										
3						and do lament			ic									
4	Торо	opological properties of elliptic functions.																
5						rgence their p			I									
6	Wei	erstra	ass Pi	functi	on an	d its pr	operti	es.										
7		field ertie		ptic fu	nction	is and i	its											
8	The construction of elliptic functions with given properties.																	
9		Topological properties of double periodic elliptic functions.																
10	cont	inuat	ion al	onga	path a	mero- and the	eir pro	pertie	s.									
11	Ana	lytic o	contin	uation	with	power	series											
12	Regular and singüler points and their properties, the Monodromy theorem and its properties.																	
13	The fundamental group and its properties.																	
14	The	Rien	nann s	surface	es and	d its pro	opertie	es.										
22 Textbooks, References and/or Other Activites									Introd Numb		to Riem			· · ·	ringer, Total Work Load (hour)			
TEB M 9										МЕЮНТ				3.00			42.00	
Practicals/Labs									- (0					0	0.00		
Self stu Quiz	Self study and preperation									ð			5.00			70.00		
Homew	omeworks)			0.00		(0.00		
Final	piects 1									0.00			0.00		(0.00		
Field S	tudie	S							(0			0.00		(0.00		
Midterr Contrib	n exa	ins_ of T	erm (`	(ear)	earn	ina Act	ivities	to	0				0.00			0.00		
Others	ers									14						70.00		
	ତିନ୍ୟାନ୍ତି୪୫୩ଡିାବ of Final Exam to Success Grade								10	100.00						13.00 195.00		
	Total Work Load															6.50		
	Total work load/ 30 hr Measurement and Evaluation Techniques Used in the ECTS Credit of the Course								e							5.00		
24	1				OAD	TAB	LE								ľ			
25				CON	TRIB	UTIO	N OF						S TO I	PROG	GRAMI	ME		
	QL									LIFIC	ATIO	NS						
	1	PQ1	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 ution Level:	tion				2 low			3 Medium			4 High			5 Very High			