RIEMANN SURFACES II											
1	Course Title:	RIEMAN	IN SURFACES II								
2	Course Code:	MAT6104									
3	Type of Course:	Optional									
4	Level of Course:	Third Cy	cle								
5	Year of Study:	1									
6	Semester:	2									
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 the sheaf of germs of meromorphic functions, Riemann surfaces of algebraic functions.								
		2	Learns orientable and non-orientable Riemann surfaces.								
		3	Learns compact Riemann surfaces and their genus.								
		4	Learns automorphisms of Riemann surfaces and conformal equivalences of Riemann surfaces.								
		5	Learns covering surfaces of Riemann surfaces, differentials of second order, surface integrals.								
		6	Learns harmonic and analytic differentials.								
		7	Learns Hilbert spaces of differentials, the existence theorem of harmonic and analytic differentials.								
		8									
		9									
		10									
21	Course Content:										
		Co	ourse Content:								
Week	Theoretical		Practice								
1	The sheaf of germs of meromorphic functions, Riemann surfaces of algel functions	braic									

2	Orient surfac	Drientable and non-orientable Riemann surfaces and their properties																
3	Comp	Compact Riemann surfaces and their genus																
4	Autom confor	orp ma	hism I equi	s of Ri valend	ieman ces of	n surfa Riema	aces a ann su	nd rfaces	5									
5	Cover differe	Covering surfaces of Riemann surfaces, differentials of second order, surface integrals																
6	Harmo prope	onic ties	c and S	analyt	ic diff	erentia	ls and	their										
7	Harmo space	onic s of	: and f diffe	analyt rential	ic diff s and	erentia their p	ls, Hill propert	oert ties										
8	The ex analyt theore	The existence theorem of harmonic and analytic differentials, the Riemann-Roch theorem																
9	Const functio	Construction Riemann surfaces of logarithm function and its properties																
10	Const and ro	Construction Riemann surfaces of polynomial and root functions and their properties																
11	Riema their p	Riemann surfaces of algebraic functions and their properties																
12	Confo	Conformal equivalences of Riemann surfaces																
13	Autom their p	Automorphisms of Riemann surfaces and heir properties.																
14	Confo surfac	onformal equivalence of tori and covering urfaces of Riemann surfaces and their																
Activites								Numb	er		Dura	Duration (hour)			Total Work Load (hour)			
Theoretical									4			3.00			42.00			
22 Assesment Practicals/Labs								(	0				0.00			0.00		
Self study and preperation										14				5.00			70.00	
Homeworks								(	0				0.00			0.00		
Projects 0									0.0	0.00				0.00			0.00	
Field Studies									(	)			0.00	0.00			0.00	
Mittaber Markams 1									10	100.00						0.00		
Others	Others									14						70.00		
Eionatrite	Fional Texations of Term (Year) Learning Activities to									0.00						13.00		
Total Work Load										100.00						195.00		
Fotativ	Pontribution and man Exam to Success Grade									100.00						6.50		
ECTS (	ECTS Credit of the Course															5.00		
Measur Course	rement	an	d Eva	luatio	n Tecl	hnique	s Use	d in th	e									
24	ECTS	5/	WO	RK L	OAD	TAB	LE											
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME																		
			<b>D</b> O0	DOD	<b>DO</b> 4	DOF	DOC	<b>D</b> 07					<b>DO40</b>	<b>DO4</b>	DOIA	D045	DOAC	
äve	P(	וצ	- 42	rQ3	rQ4	r 45	r 46		- 48	PQ9	0		rQ12	3		FQ15	PQ16	
OK1	5		5	5	5	5	5	5	5	5	5	0	U	0	0	U	U	
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	

ОК6 ÖK7	5 5	5 5	5 5	5 5	5 5	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:	Contrib 1 very low ution Level:			2 low			3 Medium			4 High			5 Very High			