	RIEMANN SURFACES II										
1	Course Title:	IN SURFACES II									
2	Course Code:	MAT6104									
3	Type of Course:	Optional									
4	Level of Course:	Third Cycle									
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:										
\\/ - \	Theoretical	Co	ourse Content:								
	The chart of garma of maramarahia		Practice								
1	The sheaf of germs of meromorphic functions, Riemann surfaces of algel functions	braic									

2	Orientable and non-orientable Riema	ınn							
	surfaces and their properties								
3	Compact Riemann surfaces and their	r genus							
4	Automorphisms of Riemann surfaces conformal equivalences of Riemann								
5	Covering surfaces of Riemann surface differentials of second order, surface								
6	Harmonic and analytic differentials as properties	nd their							
7	Harmonic and analytic differentials, F spaces of differentials and their properties.								
8	The existence theorem of harmonic a analytic differentials, the Riemann-Rotheorem								
9	Construction Riemann surfaces of log function and its properties	garithm							
10	Construction Riemann surfaces of po and root functions and their propertie								
11	Riemann surfaces of algebraic functi their properties	ons and							
12	Conformal equivalences of Riemann	surfaces							
13	Automorphisms of Riemann surfaces their properties.	and							
14	Conformal equivalence of tori and co surfaces of Riemann surfaces and th properties								
22	Textbooks, References and/or Other Materials:		[1] Introduction to Riemann Surfaces, G. Springer, [2] Complex Functions, G.A. Jones, D. Singerman.						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midterr	n Exam	0	0.00						
Quiz		0	0.00						
Homew	vorks, Performances	0	0.00						
Final E	xam	1	100.00						
Total		1	100.00						
Contribution of Term (Year) Learning Activities to Success Grade			0.00						
Contrib	oution of Final Exam to Success Grade)	100.00						
Total			100.00						
Measu	rement and Evaluation Techniques Us	sed in the							
24	ECTS / WORK LOAD TABLE								

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	5.00	70.00
Homeworks, Performances	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	14	5.00	70.00
Final Exams	1	13.00	13.00
Total Work Load			195.00
Total work load/ 30 hr			6.50
ECTS Credit of the Course			5.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	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:	ution 1 very low		2	2 low			3 Medium			4 High			5 Very High			