	L	IADO.	_ RINGS II						
1	Course Title:	LOCAL F	RINGS II						
2	Course Code:	MAT632	4						
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	2							
6	Semester:	4							
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	ace						
14	Course Coordinator:	Prof. Dr.	Atilla AKPINAR						
15	Course Lecturers:	Prof. Dr. Doç. Dr.	Basri ÇELİK Fatma ÖZEN ERDOĞAN						
16	Contact information of the Course Coordinator:	E-posta: Telefon: Adres: B Bölümü	aakpinar@uludag.edu.tr +90 224 2941774 ursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik 16059 Görükle-Bursa-TÜRKİYE						
17	Website:								
18	Objective of the Course:	To better on local i detail.	runderstand the geometric structures that can be construct rings is to examine the properties of such rings in more						
19	Contribution of the Course to Professional Development:	To understand the properties of algebraic structures							
20	Learning Outcomes:								
		1	Knows the concept of dualize						
		2	Learns the concepts of amplitude and dimension						
		3	Learns Serre's condition						
		4	Constructs power series over an algebraic structure						
		5	Finds the rank of a lineer map						
		6	Learns the McRae's invariant						
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	urse Content:						
Week	Theoretical		Practice						
1	Description of the course, Poincare s	eries							
2	for Cohen–Macaulay modules, dualiz modules	, duality zing							
3	Locally factorial domains, conductors fibers	s, formal							

4	Depth o	of a cor	nplex,	the du	ual of a	mod	le										
5	The am comple	plitude x, the t	formu ensor j	la, dir produ	nensio ct form	n of a ula											
6	Depth i	nequali	ties, co	onditio	on Sr o	f Serr	е										
7	Factoria speciali	al rings zation	and co of Poir	onditio ncaré	on Sr, o series	condit	ion Sr,										
8	Introduction the Kos	ction to zul cor	Serre [*] nplex	's con	jecture	s, filtr	ation o	of									
9	Introduction the Kos	ction to zul cor	Serre [*] nplex	's con	jecture	s, filtr	ation o	of									
10	Euler cl projecti	naracte on form	eristic c nula, pe	of the ower :	Koszul series (comp over a	olex, a i field										
11	Power s applicat amplitu	series of tion of (de inec	over a Cohen Juality	discre 's stru	ete valu icture t	ation heore	ring, m, the	9									
12	Transla operato case	tion inv rs, Ser	variant re's co	opera onjectu	ators, T ure in t	odd he gra	ded										
13	McCoy' the Eise	s theor enbud–	em, th Buchs	e ranl baum	k of a li criterio	near i on	nap,										
14	Fitting's McRae McRae	Fitting's ideals, the Euler characteristic McRae's invariant, the integral character of McRae's invariant															
Activites							1	Number				Duration (hour)			Total Work Load (hour)		
Theoretical								Ac	Acpd. Publishers, , 2000				Dordrecht. 42.00				
Practicals/Labs									0			0.00			0.00		
Saccontraction									14			9.00			126.00		
Homeworks									0			0.00			0.00		
Project Midterr	ts m Exam					0		0	0.80			0.00			0.00		
Field S	Studies							(0			0.00			0.00		
Midterr Home	m exams work-pro	iect				0		106	0.00						0.00		
Others	; 							(0 0.00					0.00			
Einal E Total	xams					1		16	100.00				12.00			12.00	
Total V	Total Work Load														180.00		
\$atales	5011011 01								~~~~~			-					
ECTS Credit of the Course															6.00		
	Credit of	/ 30 hr the Co	ourse												6.00 6.00		
Total	Credit of	/ 30 hr the Co	ourse					10	0.00						6.00 6.00		
Total Measu Course	Credit of	/ 30 hr the Co	ourse	n Tecl	hnique	s Use	d in th	100 e Th	0.00 e syste	em of r	elative	evaluat	ion is a	applied	6.00 6.00		
Total Measu Course 24	rement a	/ 30 hr the Co and Eva / WO	ourse	n Tecl	hnique TAB	s Use	d in th	10 e Th	0.00 e syste	em of r	elative	evaluat	ion is a	applied	6.00 6.00		
Total Measu Course 24 25	rement a	/ 30 hr the Cc and Eva / WO	aluation RK L	n Tecl OAD TRIB	hnique TAB	s Use LE N O	d in th		0.00 e syste IING (LIFIC	em of r OUTC	elative e COMES	evaluat	ion is a	applied GRAM	6.00 6.00		
Total Measu Course 24 25	ECTS	/ 30 hr the Cc and Eva / WO	aluation RK L CON	n Tecl OAD TRIB	hnique TAB BUTIO PQ5	s Use LE N OI PQ6	d in th		0.00 e syste IING (LIFIC PQ9	em of r OUTC ATIO PQ1 0	elative e COMES NS PQ11	evaluat S TO I	ion is a PROC PQ1 3	applied GRAM	6.00 6.00	PQ16	
Total Measu Course 24 25 ÖK1	ECTS	1 PQ2	RK L CON PQ3	n Tecl OAD TRIE PQ4	hnique TAB BUTIO PQ5	s Use LE N OI PQ6	d in th	100 e Th ARN QUA PQ8	0.00 e syste IING (LIFIC PQ9 3	em of r OUTC ATIO PQ1 0 2	elative e COMES NS PQ11 0	evaluat S TO I PQ12 0	ion is a PROC PQ1 3 0	applied SRAM PQ14	6.00 6.00	PQ16 0	

ÖK3	3	4	2	0	2	1	1	2	2	1	0	0	0	0	0	0
ÖK4	5	5	2	0	2	1	1	2	2	1	0	0	0	0	0	0
ÖK5	4	4	1	0	2	2	2	1	3	2	0	0	0	0	0	0
ÖK6	3	4	2	0	1	1	2	1	2	1	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low			3 Medium			4 Higl	h	5 Very High					