	GALOIS THEORY										
1	Course Title:	GALOIS	THEORY								
2	Course Code:	MAT406	1								
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	le								
5	Year of Study:	4									
6	Semester:	7									
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 f	ace								
14	Course Coordinator:	Prof. Dr.	İSMAİL NACİ CANGÜL								
15	Course Lecturers:	Yrd. Doç. Dr. Musa DEMİRCİ Yrd. Doç. Dr. Hacer ÖZDEN									
16	Contact information of the Course Coordinator:	cangul@uludag.edu.tr, 0 224 2941657, Fen-Edebiyat Fakültesi Matematik Bölümü									
17	Website:										
18	Objective of the Course:	The aim of this course is to give students some basic concepts of Galois Theory, to teach the techniques related to the solutions of polynomial equations.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	to be able to solve the 2nd, 3rd and 4th order polynomial equations								
		2	to be able to state the fundamental theorem of Galois theory								
		3	to be able to state the relations between groups, rings and polynomials								
		4	to be able to classify domains, fields, subrings, subfields and ideals and give examples of those								
		5	to let the students know the differences between rings, fields and domains								
		6									
		7									
		8									
		9									
21	Course Content:	10									
21	Course Content.	Co	ourse Content:								
Week	Theoretical		Practice								
1	Rings										
2	Integral Domains and Fields										
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3	Homom	orphis	m and	Ideal	 S			\top											
4	Quotient rings																		
5	Polinomial rings																		
6	Prime and maximal ideals																		
7	Irreducil	ıls																	
8	The ger			rt the	third														
9	Field ex	tensio	ns and	finite	fields			Т											
10	Midterm	ıl revie	W																
11	Galois g				Т														
12	The roo	and f	ields ex	xtens	ions														
13	The fun	damen	tal the	orem	Galois	The	ory	\top											
14	Quadrat	l quar	tic Gal	ois gr	oups														
22	Textbooks, References and/or Other Materials:								J. ROTMAN, Galois Theory, Springer, 1998; İ. N. CANGÜL, Galois Theory Lecture Notes										
23	Assesm	ent																	
TERM L	LEARNIN	G ACTI	VITIES	3			NUMBE R	WE	WEIGHT										
Midterr	m Exam						1	40	40.00										
Quiz							0	0.0	0.00										
Activites							1	Numb	er		Dura	Duration (hour) Total Work Load (hour							
Theore	Theoretical Contribution of Term (Year) Learning Activities to								14 .00			3.00	3.00			42.00			
Practic	als/Labs	Commit	1 Oui 7	Loam	1110 7 101	ar vittio.	<u> </u>		0				0.00			0.00			
Celf talls	aldrographet i	PIABEE	≠ ¥ian to	o Suc	cess G	rade		60	1 ₫ 0			4.00	4.00			56.00			
Homev	omeworks)			0.00	0.00						
Project	Projects Measurement and Evaluation Techniques Used in the								0				0.00						
Field S	Field Studies								0						0.00				
M 24 err	Mildern E-CarSs / WORK LOAD TABLE											20.00	20.00			20.00			
Others	Others											0.00	0.00						
Final E	l Exams								1			30.00		30.00					
Total V	al Work Load													148.00					
Total w	tal work load/ 30 hr												4.93						
ECTS (S Credit of the Course									5.00									
25			CON	TRIE	BUTIC	N O				OUTC		S TO I	PROC	SRAM	ME				
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9		PQ11	PQ12	PQ1	PQ14	PQ15	PQ16			
ÖK1	5	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0			
		 	_						<u> </u>										
ÖK2	2	4	0	0	4	0	0	5	0	0	0	0	0	0	0	0			
																<u> </u>			

ÖK4

ÖK5	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
ution Level:						3 Medium			4 High			5 Very High				