	ALGEBRA II								
1	Course Title:	ALGEBR	A II						
2	Course Code:	MAT520	6						
3	Type of Course:	Optional							
4	Level of Course:	Second (Cycle						
5	Year of Study:	1							
6	Semester:	2							
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.	İSMAİL NACİ CANGÜL						
15	Course Lecturers:		Süleyman ÇİFTÇİ, Doç. Dr. Ahmet TEKCAN, Yrd. Doç. Dr. :MİRCİ, Yrd. Doç. Dr. Hacer ÖZDEN						
16	Contact information of the Course Coordinator:	cangul@uludag.edu.tr, 0224 2941756, Fen-Edebiyat Fakültesi, Matematik Bölümü							
17	Website:								
18	Objective of the Course:	The aim of the course is to extend the algebraic notions learned at undergraduate level and give advanced algebra topics.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Can define algebraic structures.						
		2	Can give examples of algebraic structures.						
		3	Can give examples of different situations on different algebraic structures.						
		4							
		5							
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		7							
		8							
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	I	10							
21	Course Content:								
		Co	urse Content:						
	Theoretical		Practice						
1	Review of groups								
2	Review of rings, domains and fields								
3	Fundamental notions of Galois theory								
4	Roots of unity and Galois extensions								
5	Galois groups of quadratic, cubic and	d quartics							
6	Roots, radicals and real numbers								

7	Doma	ains	and fi	elds													
8	Structure of finite fields																
9	Classification of finite fields																
10	Solvability of equations with radicals																
11	Norm and trace																
12	Simple extensions																
13	Seperable extensions																
14	Cyclotomic extensions																
22	Textbooks, References and/or Other Materials:							Algebra : A Graduate Course, I. Martin Isaacs, Algebra, Michael Artin									
23	Asse	sme	nt						•								
TERM I	LEARNING ACTIVITIES				N R	IUMBE	WE	WEIGHT									
						0			0.00								
Quiz	2 0							0.00									
	e work-project 3						_	30.00									
Final E								70.00									
Total							4		Щ,	0.00							
Activit	Activites							Number			Duration (hour)			Total W Load (h			
Theore	heoretical ofal						10	100.00			3.00			42.00			
Practic	icals/Labs								0			0.00			0.00		
Selti rsste	rsstedy and preperation								14		8.00		112.00				
Homev	eworks							;	3		16.00			48.00			
Project	cts							(0			0.00			0.00		
Field S	Studies							(0.00		
Midterr	rm exams							(0			0.00				0.00	
Others	s						(0			0.00				0.00		
	Exams						1						30.00				
	Work Load							232.00									
	work load/ 30 hr											7.73					
ECTS	6 Credit of the Course												6.00				
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	Р	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4		0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	2		0	0	3	0	0	3	3	0	0	0	0	0	0	0	0
ÖK3	0		4	0	3	5	0	0	4	0	0	0	0	0	0	0	0
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LO: Learning Objectives PQ: Program Qualifications																	

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