	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:	Prof. Dr. Süleyman ÇİFTÇİ, Doç. Dr. Ahmet TEKCAN, Yrd. Doç. Dı Musa DEMİRCİ, 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.						
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21	Course Content:								
		Со	urse Content:						
			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	Domains and fields								
8	Structure of finite fields								
9	Classification of finite fields								
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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	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midterr	n Exam	0	0.00						
Quiz		0	0.00						
Homew	vorks, Performances	3	30.00						
Final E	xam	1	70.00						
Total		4	100.00						
Contribution of Term (Year) Learning Activities to Success Grade			30.00						
Contribution of Final Exam to Success Grade 7			70.00						
Total			100.00						
Measurement and Evaluation Techniques Used in the Course									
24	ECTS / WORK LOAD TABLE		-						
Activit	tes		Number	Duration (hour) Total Work					

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	8.00	112.00
Homeworks, Performances	3	16.00	48.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	30.00	30.00
Total Work Load			232.00
Total work load/ 30 hr			7.73
ECTS Credit of the Course			6.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	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
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution 1 very low Level:		ow	2	2 low			3 Medium		4 High			5 Very High				