ABSTRACT ALGEBRA I

1	Course Title:	ABSTRACT ALGEBRA I
2	Course Code:	MAT6201
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	1
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. İSMAİL NACİ CANGÜL
15	Course Lecturers:	Prof. Dr. Süleyman ÇİFTÇİ, Doç. Dr. Ahmet TEKCAN, Yrd. Doç. Dr. Musa DEMİRCİ, Yrd. Doç. Dr. Hacer ÖZDEN
16	Contact information of the Course Coordinator:	cangul@uludag.edu.tr, 0 224 2941756, Fen-Edebiyat Fakültesi, Matematik Bölümü, Görükle / Bursa
17	Website:	
18	Objective of the Course:	The aim of this course is to teach former algebraic notions intensively and in detail and to maket hem differentiate between results on different algebraic structures
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

		1	Can list the transformations between algebraic structures and their properties
		2	Knows the advanced notions on algebraic structures
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Algebraic transformations	
2	Properties of algebraic transformations	
3	Isomorphism theorems	
4	p-groups	

5	Structure of p-groups	
6	Sylow theorems	
7	Group representations	
8	Rings and domains	
9	Ring mappings	
10	Subrings and subfields	
11	Ideals	
12	Quotient rings	
13	Characteristic	
14	Group action on a set	

22	Textbooks, References and/or Other Materials:	1. Lecture Notes, İsmail Naci Cangül 2. Elementary Number Theory, Gareth Jones & Mary Jones, Springer 3. A First Course in Abstract Algebra, John B. Fraleigh, 4. A First Course in Abstract Algebra, Joseph J. Rotman

23	Assesment

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Final Exam	1	70.00
Contribution of Term (Year) Learning Activities to Success Grade		30.00
Contribution of Final Exam to Success Grade		70.00
Measurement and Evaluation Techniques Used in the Course		

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	6.00	84.00
Homeworks	3	12.00	36.00
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	33.00	33.00
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	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16	
ÖK1	0	3	3	0	2	5	4	0	3	0	0	0	0	0	0	0	
ÖK2	0	3	3	0	2	5	4	0	3	0	0	0	0	0	0	0	

LO: Learning Objectives PQ: Program Qualifications				
Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High