

Department Department of Mathematics			Academic Year 2022-2023	Date 01/12/2022	
Course Unit Code MATH3104	Course Unit Title Abstract Algebra II		Semester/Year Spring / 3	Number of ECTS Credits 3	
Language of Instruction	Turkish				
Type of Course Unit	Compulsory				
Prerequisites and co-requisites	-				
Address of course	-				
Local Credit	Theoretical	Practical	Laboratory	Presentation	Project
2	2	0		-	-
Name of Lecturers	Professor Handan ÖZTEKİN				
Assistants	-				

Course content	Ring identification and its element properties, subrings, ring homomorphisms, ideals, division ring, isomorphism theorems, polynomial rings, field identification and its element properties, subfield, integral domain, field and ring of characteristics, field of fractions on integral domain
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Weekly Detailed Course Contents	
Week	Topic
1	Ring identification and its elementar properties
2	Subrings
3	Ring Homomorphism's
4	Ideals
5	Division rings
6	Isomorphism theorems
7	Polynomial rings
8	Field identification and its element properties
9	General application
10	Subfield
11	Integral domain
12	Characteristics of field and rings
13	Field of fraction on integral domain
14	A brief evaluation of the course content and topics

Course Resources	1.Soyut Cebire Giriş (H Hilmi HACISALİHOĞLU) 2. Soyut Cebir (Dursun Taşcı) 3. Soyut Cebir (İsmail Naci CANGÜL)
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Assessment Methods and Criteria	In-Term studies	Quantity	Percentage (%)
	Mid-Term Exams	1	40
	Quizzes	-	-
	Assignments	-	-
	Projects	-	-
	Term assignment	-	-
	Laboratory	-	-
	Other	-	-
	Final exam	1	60
On Assessment Methods and	A grade of success; is determined by using the relative evaluation system or the discretion of the instructor. In order to be able to evaluate the courses in which the relative evaluation system and the		

Criteria	teaching staff member's discretion are applied, the final exam score of the student must be at least YSAS. Students who fall below this score are considered to fail directly. For the courses that can not be evaluated with the relative evaluation system, the distribution of the final grade of the final grade and the letter grades which are the equivalents of the success grades are determined by the consent of the instructor who gives the lesson using the table prepared by the Senate with 100 points. A student who has received a grade AA, BA, BB, CB or CC grade is deemed to have completed that course. A student who has received one of the grade DC or DD grades is deemed to have fulfilled that course condition. In order for a student who takes DD and DC letters to be counted as successful, the GNO must be at least 2.00. A student who receives a graded FF grade is considered to have failed that course.
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Percentage of Course Category (%)	Mathematics and Basic Sciences	100
	Computer Sciences	0
	Programming Design	0
	Social sciences	0

Course Outcome	Students have basic knowledge about the theory of Abstract Algebra II.
Aims of the course	1. To give students basic concepts and theorems related to Abstract Algebra. 2. To provide students with technical information that is relevant to Abstract Algebra and which can produce the most appropriate solution for the problems requiring solving.
The way of processing course	Face to face

Relation of the course with program outcomes				
Learning outcomes		1	2	3
1	To have advanced theoretical and applied knowledge in a way to prioritize the scientific approach supported by textbooks containing up-to-date information in the field, application tools and other resources			
2	Adapting and transferring the knowledge gained in the field to secondary education			
3	Ability to independently carry out an advanced study in the field			
4	Be aware of the necessity of lifelong learning and continuously improve their professional knowledge and skills.		X	
5	Using a foreign language at least at the European Language Portfolio B1 General Level, following the information in the field and being able to communicate with colleagues			
6	To be able to use information and communication technologies together with computer software at minimum advanced level of European computer license required by the field.			
7	Have the ability to make oral and written presentation in native language			
8	Having the ability to understand spoken English and use English at reading level			
9	To have the ability to assimilate mathematical concepts and understand the relationships between them, to recognize different aspects of the same concepts and relationships		X	
10	To have the ability to define and formulate the relationships between items in non-mathematical disciplines in the language of mathematics.		X	
11	To have the ability to use mathematical knowledge in different problems			
12	Having the ability to develop computer programs using mathematical knowledge			
Contribution of the course: 1:No 2:Partially 3:Completely				

Preparer: Professor Handan ÖZTEKİN
Preparation date: 01/12/2022