RING THEORY I										
1	Course Title:	RING TH	IEORY I							
2	Course Code:	MAT511	9							
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
5	Year of Study:	1								
6	Semester:	1								
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:	equisites:								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr. MUSA DEMİRCİ								
15	Course Lecturers:	Prof. Dr. İsmail Naci Cangül, Prof. Dr. Gökhan Soydan, Prof. Dr. Betül Gezer, Doç. Dr. Yeliz Kara Şen,								
16	Contact information of the Course Coordinator:	Doç. Dr. Musa Demirci Fen-Edebiyat Fakültesi Matematik Bölümü Görükle / BURSA								
17	Website:									
18	Objective of the Course:	The Students are learned some basic information about Algebraic structure during undergraduate education. One of These algebraic structures which is Ring will be discussed and studied specifically.								
19	Contribution of the Course to Professional Development:	To have advanced knowledge about rings.								
20	Learning Outcomes:									
		1	Knows the notion of Rings							
		2	Can operate on Rings							
		3	Knows notions which Subring, Ideal and Quotient Ring.							
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									
Week	Theoretical		Practice							
1	Introduction to Rings. Elementary kn about Rings	owledge								
2	Some important Rings which are Boolean,Regular and etc.									
3	Subrings and Subfields.Ideals and Q Rings	uotient								
4	Homomorphisms and Isomorphisms.									

6    Subrings. Ideals and Homomorphisms      7    Ring embeddings. Theorems of Isomorphism      8    Integral domain, Quoitent Field of Integral Domain.      9    Polinomial Rings.      10    Exercises about Homomorphisms, Isomorphisms and Integral domain.      11    Direct sum of Rings.      12    Polinomial Rings and F[X] Rings.      13    Euclidean Domains and Ideals.      14    General exercises about Rings.      15    Exclidean Domains and Ideals.      16    Textbooks, References and/or Other Materials:      Materials:    0      17    Direct sum 0      18    Sessment      19    Certify Age Status      10    Integraf properties      10    0      11    Direct sum 0      12    Polinomial Rings and F[X] Rings.      13    Euclidean Domains and Ideals.      14    General exercises about Rings.      12    Polinomial Rings and F[X] Rings.      13    Euclidean Domain Sings and F[X] Rings.      14    General exercises about Rings.      <	5	Exercises about Rings and Subrings.																	
7    Ring embeddings. Theorems of Isomortpism      8    Integral domain.    Dumain.      9    Polinomial Rings.	6	Subrings, Ideals and Homomorphisms																	
8    Integral domain.    Dumonial Rings.      9    Polinomial Rings.    Image: Comparison and Integral domain.      11    Direct sum of Rings.    Image: Comparison and Integral domain.      13    Euclidean Domains and Ideals.    Image: Comparison and Integral domain.      14    General exercises about Rings.    Image: Comparison and Integral domain.      22    Textbooks, References and/or Other Materials:    CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Effaur, ISBN: 0-07-040035-0      23    Assesment    Image: CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Effaur, ISBN: 0-07-040035-0      23    Assesment    Image: CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Effaur, ISBN: 0-07-040035-0      23    Assesment    Image: CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Effaur, ISBN: 0-07-040035-0      24    Assesment    Image: CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Effaur, ISBN: 0-07-040035-0      23    Assesment    Image: CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Effaur, ISBN: 0-07-040035-0      23    Assesment    Image: CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Effaur, ISBN: 0-07-040035-0      24    Image: CEBIR, All Osman ASAR, Ahmet ARIKAN, 2009 Effaur, ISBN: 0-07-040035-0    Image: CEB	7	Ring embeddings. Theorems of Isomorhpism						n											
9    Polinomial Rings.      10    Exercises about Homomorphisms, Integral domain.      11    Direct sum of Rings.	8	Integral domain, Quoitent Field of Integral Domain.																	
10    Exercises about Homomorphisms, somophisms, and Integral domain.      11    Direct sum of Rings.      12    Polinomial Rings and F[x] Rings.      13    Euclidean Domains and Ideals.      14    General exercises about Rings.      22    Textbooks, References and/or Other Materials:    CEBIR, Ali Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Eflatun, ISBN: 978-605-4160-22-8 FUNDAMENTALS OF ABSTRACT ALGEBRA, D., S., MALIK, John M., MORDESAN, W. K., SEN, 1997      23    Assesment    CEBIR, Ali Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Eflatun, ISBN: 0-07-040035-0      23    Assesment    0    0.00      TERM LEARNING ACTIVITIES    NUMBE    WEIGHT      Midterm Exam    0    0.00    0.00      Quiz    0    0.00    42.00      Practicals/Labs    0    0.00    0.00      Genetione/Labs    6    6.00    36.00      Mediavarid frieple/Exam    0    0.00    0.00      Genetione/Labs    6    6.00    24.00      Field Studies    0    0.00    0.00    0.00      Field Studies    0    0.00	9	Polinomial Rings.																	
11    Direct sum of Rings.      12    Polinomial Rings and F[X] Rings.      13    Euclidean Domains and Ideals.      14    General exercises about Rings.      22    Textbooks, References and/or Other Materials:    CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Eflatum, ISBN: 978-605-416-02-8 MUNDAMENTALS OF ABSTRACT ALGEBRA, D., S., MALIK, John M., MORDESAN, M., K., SEN, 1997      23    Assesment    NUMBE    WEIGHT      TERM LEARNING ACTIVITIES    NUMBE R    WEIGHT      Midderm Exam    0    0.00    Outation (hour)    Total Work Load (hour)      Quiz    0    0.00    Outation (hour)    Total Work Load (hour)      Activities    Number    Duration (hour)    Total Work Load (hour)      Constrains/Labs    0    0.00    0.00    0.00      Generis/Wighten of Term (Year) Learning Activities to lone/Weikifkement and Evaluation Techniques Used in the S \$mmative assessment (Fiffel Exam)    0.00      MideWighten of FilepeLEarem to Success Grade    0    0.00    0.00      Field Studies    0    0.00    0.00    0.00      Term (Mathemation Techniques Used in the S \$mmative assessment (Fiffel Exam)	10	Exercises about Homomorphisms, Isomorphisms and Integral domain.																	
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13    Euclidean Domains and Ideals.      14    General exercises about Rings.      22    Textbooks, References and/or Other Materials:    CEBIR, All Osman ASAR, Ahmet ARIKAN, Aynur ARIKAN, 2009 Effatun, ISBN: 978-60544160-22-8 FUNDAMENTALS OF ABSTRACT ALGEBRA, D., S., MALIK, John M., MORDESAN, M., K., SEN, 1997      23    Assesment    NUMBE    WEIGHT      TERM LEARNING ACTIVITIES    NUMBE    WEIGHT      Midterm Exam    0    0.00      Quiz    0    0.00      Activities    Number    Duration (hour)    Total Work Load (hour)      Practicals/Labs    0    0.00    0.00    0.00      Generate Studies    0    0.00    0.00    0.00      Homeworks    6    6.00    3.00    42.00      Final Exams    0    0.00    0.00    0.00      Meides/dement and Evaluation Techniques Used in the [Stimmative assessment (PRAI Exam)    0.00    0.00      Mides    4    6.00    24.00    20.00    20.00      Final Exams    1    20.00    20.00    20.00    20.00    20.00	12	Polinomial Rings and F[x] Rings.																	
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Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
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Level:					