

MATH 326 – Abstract Algebra II

Department of Mathematics and Computer Sciences

Methods of Instruction	Theor.	Appl.	Lab.	Intern.	Project/Field Work	Other	Total	Credit	ECTS Credit
	42	-	-	-	-	-	42	(3 0 3)	5

Sezgin Sezer (A-Block, 107/A, Phone: +90 312 2844500 Ext: 307)
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Schedule	Wednesday 13:40 – 15:30,(B-317), Thursday 15:40 – 16:30,(B-317)
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Office Hours	Monday 10:40 – 11:30, Tuesday 10:40 – 11:30, Thursday 10:40 – 11:30
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Prerequisite	None
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Catalog Description	Rings; ring homomorphisms and quotient rings; field of quotient and integral domains; maximal and prime ideals; polynomial rings; principal ideal domains and unique factorization domains; fields and vector spaces; field extensions; finite extensions and roots of polynomials
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Textbook	<i>Contemporary Abstract Algebra</i> , 2006 6th edition, Houghton Mifflin, written by Joseph A. Gallian
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Reference Books	A Book of Abstract Algebra, Charles C. Pinter, McGraw-Hill Abstract Algebra, I.N. Herstein, Prentice-Hall
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Evaluation Criteria		Number of	Percentages
	Midterm Exams	2	60
	Homework	--	--
	Final Exam	1	40

Exam Dates	First Midterm Exam: 2 April 2007 Second Midterm Exam: 7 May 2007
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Course Description Details		
Week	Dates	Topics covered
1	12. 02 – 16. 02	10 Group Homomorphisms 11. Fundamental Theorem of Abelian Groups
2	19. 02 – 23. 02	12 Introduction to Rings,
3	26. 02 – 02. 03	12 Introduction to Rings 13 Integral Domains
4	05. 02 – 09. 03	14. Ideals and Factor Rings,
5	12. 03 – 16. 03	15. Ring Homomorphisms
6	19. 03 – 23. 03	16. Polynomial Rings,
7	26. 03 – 30. 03	17. Factorization of Polynomials
8	02. 04 – 06. 04	18. Divisibility in Integral Domains
9	09. 04 – 13. 04	19. Vector Spaces 20. Extension Fields
10	16. 04 – 20. 04	21. Algebraic Extensions,
11	23. 04 – 27. 04	22. Finite Fields
12	30. 04 – 04. 05	23. Geometric Constructions
13	07. 05 – 11. 05	32. An Introduction to Galois Theory
14	14. 05 – 18. 05	33. Cyclotomic Extensions