

2015

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| Course Title | () | 2 | () | Modern Algebra 2 |
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|----------------------------|-----|--------------------------------------|------------------|
| () Lecturer | () | / / (Course No. /) | 005599/ /3 |
| (/HP) Contact No. | | / (Class Hour/Venue) | 10:30-11:45/ 109 |
| (Course Prerequisite) | 1 | (Target Student) | 3-4 |
| E-mail (E-mail Address) | | /Office Hour (Office/Office Hour) | 118/ 14-15 |

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| (Objectives) | 1 (group) Galois (ring) (field) |
| CQI (Continuous Quality Improvement Plan) | |
| (Text book & References) | : (J. Fraleigh, A First Course in Abstract Algebra), 7 , : J. Fraleigh, A First Course in Abstract Algebra, seventh Edition |
| (Assignment book) | : I. Herstein |
| (Lecture Methods) | |
| (Assignment) | 2 |
| (Reading Materials) | |
| 가 (Course Grading) | [가] (%) : 30, (%) : 40, 가 (%) : 20, (%) : 10, |
| (Etc.) | |

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| (Week) | (Course Contents) | (Etc.) | |
|--------|--|--------|--|
| 1 | Section 18: Rings and Fields() | | |
| 2 | Section 19: Integral domains() Section 20: Fermat's and Euler's Theorems | | |
| 3 | Section 21: The field of Quotients of an integral Domain() Section 22: Rings of Polynomials, Section 23: Factorization of Polynomials(,) | | |
| 4 | Section 24: Noncommutative Examples(가) Section 26: Homomorphism and Factor Rings() | | |
| 5 | Section 27: Prime and Maximal Ideals() | | |
| 6 | Section 29: Introduction to extension fields() Section 30: Vector Spaces() Section 30: Vector Spaces | | |
| 7 | Section 31: Algebraic extensions() | | |
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| (Week) | (Course Contents) | (Etc.) | |
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| 9 | Section32: Geometric Constructions() | | |
| 10 | Section 33: Finite fields() | | |
| 11 | Section45: Unique Factorization Domains() Section46: Euclidean Domains() | | |
| 12 | Section48: Automorphism of fields() Section49: The Isomorphism Extension Theorem() | | |
| 13 | Section50: Splitting Fields() Section51: Separable Extensions() | | |
| 14 | section53: galois theory() | | |
| 15 | section54: examples of galois theory() | | |
| 16 | | | |

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| <p style="text-align: center;">가 1 (Additional Guide1)</p> | <p style="text-align: center;">()</p> <p>Students who require special assistance (including special needs students) may contact their professors during the first week of the semester to discuss issues related to attendance, lectures, assignments and exams and request learning assistance.</p> |
| <p style="text-align: center;">가 2 (Additional Guide2)</p> | |