

2015년도 1학기 조합론 수업계획서

교과목명 Course Title	(국문) 조합론	(영문)	Combinatorics
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담당교수(소속) Lecturer	유호석 (수학전공)	학수번호/구분/학점 (Course No. /)	003064/전공선택/3학점
전화(연구실/HP) Contact No.		강의시간/강의실 (Class Hour/Venue)	
선수과목 (Course Prerequisite)		수강대상 (Target Student)	
E-mail (E-mail Address)		연구실/Office Hour (Office/Office Hour)	다산관117/월수

교과목표 (Objectives)	This course emphasizes combinatorial ideas, including the pigeon-hole principle, counting techniques, permutations. Polya counting, binomial coefficients, inclusion-exclusion principle, generating functions and recurrence relations.
이번 강의의 개선을 위한 개선계획 CQI (Continuous Quality Improvement Plan)	
교재 참고도서 (Text book & References)	강의자료
과제도서 (Assignment book)	Applied combinatorics(6th edition, part two) - Alan Tucker (Wiley)
수업방법 (Lecture Methods)	
과제물 (Assignment)	과제 1. Problems will be assigned later 과제 2. Problems will be assigned later 과제 3. Problems will be assigned later 과제 4. Problems will be assigned later 과제 5. Problems will be assigned later
독서물 (Reading Materials)	
학업성취 평가방법 (Course Grading)	[상대평가] 중간고사(%) : 25, 기말고사(%) : 25, 수시평가및과제(%) : 40, 출석(%) : 10,
기타 (Etc.)	

주별 교과내용 (교과목명 : 조합론)

주 (Week)	교 수 내 용 (Course Contents)	수업형태 및 활용기자재 (Etc.)	비 고
1	Mastermind game Two basic counting principles		
2	Simple arrangements and selections Simple arrangements and selections with repetitions		
3	Distributions		
4	Binomial identities		
5	Test 1 Calculating coefficients of generating functions		
6	Partitions Exponential generating functions		
7	Summation method Recurrence relation models		
8	Recurrence relation models Solution of linear recurrence relations		

주별 교과내용 (교과목명 : 조합론)

주 (Week)	교 수 내 용 (Course Contents)	수업형태 및 활용기자재 (Etc.)	비 고
9	Solution of inhomogeneous recurrence relations		
10	Solutions with generating functions Test 2		
11	Counting with Venn Diagrams		
12	Inclusion-exclusion formula		
13	Restricted positions and rook polynomials		
14	Pigeonhole Principle - simple form		
15	Pigeonhole Principle - strong form		
16			

<p>추 가 안내사항1 (Additional Guide1)</p>	<p>특별한 지원이 필요한 경우(장애학생 등) 학기 첫 주에 담당교수와의 면담을 통해 출석, 강의, 과제 및 시험 등에 관한 교수학습지원 사항을 요청할 수 있음 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>추 가 안내사항2 (Additional Guide2)</p>	