

Course Title : Discrete Mathematics
[Syllabus]

2022-1st Semester

Course	Category	전공선택(전공선택)	Instructor	Department or Division	School of Electrical and Computer Engineering
	Number(section)	40092(01)		Name	
	Title	Discrete Mathematics		Phone	
	Credit(Hours)	3 Credit(3 Hours)		E-mail	
	Type	강의		Homepage	
	Time(Room)	Mon 01,02,03/19-108/109		Office Hour	
	School Year	2 year	Assistant	name & Phone	

Grading	Evaluation Method	절대평가			
	<input type="checkbox"/> Attendance (20%)	<input type="checkbox"/> Portfolio (0%)	<input type="checkbox"/> Participation (0%)		
	<input type="checkbox"/> Assignment (20%)	<input type="checkbox"/> Quiz (10%)	<input type="checkbox"/> Midterm Report (0%)	<input type="checkbox"/> Midterm Exam (0%)	
	<input type="checkbox"/> Final Report (0%)	<input type="checkbox"/> Final Exam (50%)	<input type="checkbox"/> 기타(0%)		
Type	Lecture and Practice , PBL , Foreign Language , Convergence				
Teaching Method	Lecture , Design , Project				
Plagiarism Policy	It is considered plagiarism to draw any idea or any language from someone else without adequately crediting that source in your work. It doesn't matter whether the source is a published author, another student, a Web site without clear authorship, a Web site that sells academic papers, or any other person: Taking credit for anyone else's work is stealing, and it is unacceptable in all academic situations, whether you do it intentionally or by accident.				
Any student with a disability is welcome to contact the instructor to get academic accommodations, and may be in touch with the Student Accessibility Services by calling 02-6490-6273 to discuss the process for requesting accommodations.					

Course Objectives	
This course provides an overview of discrete mathematics. The topics covered in the course include logic, set theory, functions and their growth, Boolean functions, the integers, algorithms, relations and digraphs, inductive and recursive definitions and arguments, fundamentals of counting and discrete probability, recurrence relations, relations, elementary graph theory including trees, tree-searching and traversal.	
Course Description	Textbooks and Reference Materials
컴퓨터 공학에 공통적으로 적용되는 논리, 집합, 함수관계 그래프 등을 익히고 컴퓨터 공학 전반에 관한 적용 능력을 기른다.	Kenneth Rosen, Discrete Mathematics and Its Applications
Specialty competency	Representative competency
Knowledge Application	Secondary
Analysis Experiment	
Problem Definition	Primary
Resource Utilization	Secondary
Planning Ability	
Cooperative Ability	
Communicative Skills	
Continuous Learning	
Effect Understanding	

Specialty competency	Representative competency
Vocational Ethics	

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Week	Contents	Teaching Method	Teaching Materials	Requirements, Assignments, etc.
1	Overview	Lecture		Textbook
2	Logic I	Lecture		Textbook
3	Logic II	Lecture		Textbook
4	Sets	Lecture		Textbook
5	Integers	Lecture		Textbook
6	Induction and Recursion	Lecture		Textbook
7	Counting	Lecture		Textbook
8	Review and Evaluation	Lecture, Exam		Textbook
9	Discrete Probability	Lecture		Textbook
10	Functions	Lecture		Textbook
11	Relations	Lecture		Textbook
12	Supplementary Week			
13	Graphs	Lecture		Textbook
14	Trees	Lecture		Textbook
15	Review	Lecture		Textbook
16	Review and Final Exam	Lecture,Exam		Textbook