

Syllabus [2025Year 2 Term]

Course Information

Course Title	Linear Algebra	Credits	3
Course Code	359210-3	Required/Elective (For Undergraduate Courses)	basic Major
Department or Major	Department of Mobile Systems Engineering	Language	English
Methods of Teaching		Lecture Room	월10,11,12/ 화4,5,6(국제608)
Time Allotment	Lecture(3) Experiments(0) Trainging & Practice(0) Performance(0) Designing & Planning(0)	Cyber Lectures	
Course Type	offline		
Cyber Lectures Preview			

Lecturer

Lecturer	Name	Suhan Choi	Rank	Professor	Final Academic Degree	공학박사
	Department & college	Department of Mobile Systems Engineering		Office	International Hall 601	
	Office Phone Number	031-8005-3243		e-mail	suhanc@dankook.ac.kr	
	Field of Interest					

Course Summary

Course Description	In this course, students learn the basic concepts and theories about linear algebra, which is related to communications, signal processing, and AI. This course mainly study matrices and vectors and their properties and applications.
Description Related Courses	In this course, students learn the basic mathematical concepts of linear algebra which is closely related to communications theory, signal processing, Machine Learning and AI. The following courses use the concepts and materials dealt with in this course. - Digital Communications - Signal Processing - Wireless Communications - Algorithms - Machine Learning - AI

Course Goals	Students can learn the basic concepts and theories of linear algebra.
Projected Results	Students can understand the fundamental concepts of linear algebra, which include vector s, matrices, their applications.
Percentage of the original language classes(%)	100%
Cyber Lectures Preview	

Syllabus

Times	Lecture Topic	Lecture Goals	Lecture Methods	Assignments
1	Same as the Korean version schedule	Same as the Korean version schedule	Same as the Korean version schedule	Same as the Korean version schedule
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Methods of Grading

sequence	Description	Percentage	Details
1	Mid-tem Exam	40%	Offline Exam.
2	Final-exam	40%	Offline Exam.
3	Pop Quizzes	0%	
4	Assignments	10%	
5	Reports	0%	
All		100%	

sequence	Description	Percentage	Details
6	Presentations & Discussions	0%	
7	Attendance	10%	
8		0%	
9	Others	0%	
All		100%	

Core of Value

핵심가치	전공역량	역량정의	역량구분	값(%)
혁신 (Discovery)	창의적문제해결 (Creative problem-solving)	주어진 상황과 문제를 창의적으로 해결할 수 있는 능력	부역량	0%
혁신 (Discovery)	도전 (Challenging)	전공 지식을 새로운 분야와 융합하고 아우를 수 있는 능력		0%
혁신 (Discovery)	지식융합 (Knowledge convergence)	새로운 분야를 개척하거나 도전적으로 임할 수 있는 능력		0%
헌신 (Dedication)	세계시민 (Universal value)	세계 공동체 구성원으로 전공자로서 국제적 이슈에 대응할 수 있는 능력		0%
헌신 (Dedication)	상호협력 (Cooperation)	공동의 목적 달성을 위해 타인과 상호협력할 수 있는 능력		0%
헌신 (Dedication)	공동체 (Sense of community)	공동체의 구성원으로서 필요한 태도와 윤리의식을 가질 수 있는 능력		0%
능동 (self-Determination)	자기주도 (Self-Managing)	주어진 상황과 문제를 주도적이고 능동적으로 해결할 수 있는 능력	부역량	0%
능동 (self-Determination)	지식활용 (Knowledge application)	주어진 상황과 문제에 대해 논리적으로 파악하고 분석할 수 있는 능력	주역량	0%
능동 (self-Determination)	논리적사고 (Logical thinking)	전공관련 지식을 필요에 따라 다양하게 적용하고 활용할 수 있는 능력		0%
능동 (self-Determination)	의사소통 (Articulation)	대화를 통해 다양한 의견을 조율하고 합의를 이끌어 낼 수 있는 능력		0%

Textbook(s) & References

Descrip tion	Title	Author	Publisher
Requi red T extbo ok	Advanced Engineering Mathematics (10th E dition) (Abridged International Student Editi on)	Erwin Kr eyszig	Wiley

Memo