

## Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Undergraduate Mathematics Study Program

Document Code

				SEM	ESTER	LE	ARI	NIN(	G PL	.AN					
Courses				CODE		Cou	rse Fan	nily	Credit	Weight		SEMI	ESTER	Compilation Date	
Linear Al	gebr	a		4420103006	5				T=3 P	=0 ECTS	5=4.77		5	July 17, 2024	
AUTHOR	IZAT	ION		SP Develop	oer	1		Cours	e Cluste	r Coordir	nator		y Progr dinator		
												Prof.		den Sulaiman, .Si.	
Learning model		Case Studies										I			
Program		PLO study program that is charged to the course													
Learning Outcome		Program Objectives (PO)													
(PLO)		PLO-PO Mat	rix												
				P.O											
		PO Matrix at	the e	nd of each	learning sta	ıge (S	ub-PO)								
			Р	.O 1 2	3 4	5	6 7	8	Week 9 1	10 11	12	13	14	15 16	
Short Course Descript	ion	Studying inner decomposition approach.	produ of lin	ict spaces ov lear operator	ver complex fiers, and bilinea	elds, ty ar forn	/pes of I	inear d metric	pperators , quadra	s and the r	elations gh activ	ships b	etween ning wi	them, spectral th a deductive	
Reference	ces	Main :													
					. J., & Spence Algebra . New						sey: Pre	entice-l	Hall,Inc.		
		Supporters:													
Supporti lecturer	ing	Dr. Agung Luk	ito, M.	S.											
Week-	of e lear	al abilities each rning stage		Evalu	ation			Lear Stude	lp Learr ning me nt Assig stimated	thods, nments,		mat	rning erials [ rences	Assessment Weight (%)	
	(Su	b-PŌ)	ln	dicator	Criteria & F	orm	Offlir offlir		Onli	ine ( <i>onlir</i>	ne)	Reie	]		
(1)		(2)		(3)	(4)		(5)			(6)		(	(7)	(8)	

1	Understand product spaces in complex fields	1. Determining whether a complex function on the Cartesian product of a vector space is an inner product. 2.Determine the relationship between vector lengths	Collaborative Learning Approach (Lecture, discussion and question and answer) 3 X 50		0%
2					0%
3					0%
4					0%
5					0%
6					0%
7					0%
8					0%
9					0%
10					0%
11					0%
12					0%
13					0%
14					0%
15					0%
16					0%

**Evaluation Percentage Recap: Case Study** 

No	Evaluation	Percentage
		0%

## Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. **Subject Sub-PO** (Sub-PO) is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of

the course.

- 5. **Indicators for assessing** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities or performance of student learning outcomes accompanied by evidence.
- 6. Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. **Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.