

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Applied Linear Algebra				
Module level,if applicable:	Undergraduate				
Code:	MAT6339				
Sub-heading,if applicable:	-				
Classes,if applicable:	-				
Semester:	6 th				
Module coordinator:	Dr. Karyati, M.Si.				
Lecturer(s):	1. Dr. Karyati, M.Si.				
	2. Dr. Agus Maman Abadi, M. Si.				
Language:	Bahasa Indonesia				
Classification within the	Elective course				
curriculum:	Elective course				
Teaching format / class	150 minutes lectures and 180 minutes structured activities per				
hours perweek during the	week.				
semester:	WCCK.				
	Total workload is 136 hours per semester which consists of 150				
Workload:	minutes lectures, 180 minutes structured activities, and 180				
	minutes self-study per week for 16 weeks.				
Creditpoints:	3				
Prerequisites course(s):	Advanced Linear Algebra (MAT6326)				
	After taking this course the students have ability to:				
	CO1. Respecting other people's views, opinions,and original				
Course outcomes:	ideas.				
	CO2. Applied linear algebra in GPS and iteration method.				
	CO3. Applied linear algebra in markov chain and population's				

		gı	rowth				
	CO4. Applied linear algebra in differential equation system dar singular value decomposition problem CO5. Applied linear algebra in other statistics problems.						
	This course discusses about application of linear eq						
	system on GPS and iteration method, application matrix on						
Content:	Markov Chain problem, population growth and digital image						
Contont							
	compression, aplication of eigenvalues on linearly differential						
	equation system, singular decomposition problems, and CO1: Attitude assessment is carried out at each me						
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				or self-assessn	•	•	
		•		sically every stud	ŭ		
			-	alue of very goo	_	-	
				compared to oth	_	•	
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				e of therequirer	•		
	Students will pass from this course if at least have a good						
Study/evam achievements:			•		o ii at loadt lit	ave a good	
Study/exam achievements:	attit	ude.	•		io ii di lodoi iii	ave a good	
Study/exam achievements:						ave a good	
Study/exam achievements:		final	mark will b	pe weight as follo	w:		
Study/exam achievements:		final	mark will b	oe weight as follo Assessment Object	W: Assessment Technique	Weight	
Study/exam achievements:		final	mark will b	pe weight as follo	W: Assessment		
Study/exam achievements:		final	mark will b	Assessment Object a. Individual assignment b. Group	W: Assessment Technique	Weight	
Study/exam achievements:		final	mark will b	Assessment Object a. Individual assignment b. Group assignment c. Quiz	W: Assessment Technique	Weight 15% 15% 10%	
Study/exam achievements:		final	mark will b	Assessment Object a. Individual assignment b. Group assignment	W: Assessment Technique Written test	15% 15% 10% 30% 30%	
	The	No 1	mark will b	Assessment Object a. Individual assignment b. Group assignment c. Quiz d. Mid Exam e. Final Exam	W: Assessment Technique Written test Total	Weight 15% 15% 10% 30%	
Study/exam achievements: Forms of media:	The	No 1	mark will b	Assessment Object a. Individual assignment b. Group assignment c. Quiz d. Mid Exam e. Final Exam or, Laptop/Comp	W: Assessment Technique Written test Total uter	15% 15% 10% 30% 30% 100%	
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Forms of media:	Board 1. 7	final No 1 Antor Wiley Antor	mark will b	Assessment Object a. Individual assignment b. Group assignment c. Quiz d. Mid Exam e. Final Exam or, Laptop/Comp Elementary Line c. Linear Algebra	W: Assessment Technique Written test Total uter ar Algebra. New	Weight 15% 15% 10% 30% 30% 100% York. John	
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Gramedia Utama

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2				✓						
CO3					✓					
CO4							✓			
										✓