Module designation	CE	121 L	inear Algebra		
Semester(s) in which the module is taught	1				
	Am	iinud	din Rizal, S.T., M.Sc.		
Person responsible for the	Na	bila H	Iusna Shabrina, S.T, M.T.		
module	Dr.	Hug	eng, S.T., M.T.		
	Ari	ana 1	Γulus Purnomo, S.T., M.Sc.		
Language	Ind	ones	sian		
Relation to curriculum	Соі	npul	sory		
Didactic Methods	Lec	ture	, Independent Learning		
	Total workload: 136.08 hours				
Workload (incl. contact hours.	d (incl. contact hours, - 35.01 hours	5.01 hours of synchronous	s of synchronous lecture.		
self-study hours)	- 84.06 hours of self-study and assignments in the form of				
		e	ssays.		
	-	1	7.01 hours related to exam	and self study	
Credit points	3	SKS (5.04 ECTS)		
Required and recommended prerequisites for joining the module	-				
Module objectives/intended learning outcomes	J	J2	Understand algorithms and mathematical principles upon which the computer system is founded to solve engineering problems.	Students will be able to apply linear combination, linear independence, basis, and vector dimension operation (C3) Students will be able to determine orthogonal and orthonormal bases (C3) Students will be able to determine eigenvalue and eigenvector of a matrix (C3) Students will be able to employ linear transformation in Rn (C3)	
Contont	Thi	s coi	urse covers matrix theory a	and linear algebra, emphasizir	ng
Content	top	oics u	seful in computer enginee	ring field	0
Assessment Instrument	Wr	itten	Test		
Study and examination requirements	The mic mc	e tota dtern ore th	al average score for the ass n exam (25%), final exam (2 nan or equal to 55 (C).	signments&quiz (40%), 35%). Final score must be	

	1. Howard Anton dan Chris Rorres. Elementary Linea
	Algebra. Application Version. 12 th edition. John Wiley
Reading list	Sons, 2019
	2. Poole, David Linear Algebra A Modern Introduction 41
	Edition, Belmont: Thomson Higher Education, 2015