Linear Algebra

Course Code	Student Workload	Credits (according to ECTS)	Semester	Frequency	Duration
CIF62005	60 hours	3	Sem. 2	each even-semester	16 meetings

	Types of courses	contact hours	independent study	class size
1	*compulsory (study programme level)*	42 hours	18 hours	40 students

2 Prerequisites for participation

3 Learning outcomes

IF-PLO-3

Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements.

IF-PLO-4

Graduates have the ability to think computationally, design-based thinking, conduct analysis with scientific writing, and are able to apply the values of Technopreneurship in creating product innovations in the Systems or Information Technology domain.

IF-PLO-6

Mastering mathematical concepts and/or theoretical computational statistics.

4 Subject aims

Students are able to calculate matrix operations.

Students are able to find solutions to linear equation system problems.

Students are able to understand vectors.

Students are able to understand the matrix.

5 Teaching methods

lectures, case study, class discussion, presentation

6 Assessment methods

assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment

7 This module is used in the following degree programs as well

8 Responsibility for module

9 Other information

1. Marsudi and Marjono, 2012, "Linear Algebra", UB Press, Malang

	2. Matthews K.R., 1998, "Elementary Linear Algebra", University of Queensland, Queensland 3. Howard Anton, Chris Rorres, 2005, "Elementary linear algebra with applications", Ninth edition, Jhon Wiley and Son.