



**UNIVERSITAS NEGERI PADANG**  
FACULTY OF MATHEMATICS AND NATURAL SCIENCES  
MATHEMATICS DEPARTMENT, MATHEMATICS STUDY PROGRAM  
Main Campus Universitas Negeri Padang.  
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**Bachelor of Science in Mathematics**

**MODULE HANDBOOK**

Module name:	Linear Algebra
Module level, if applicable:	Bachelor
Code:	MAT2.62.6001
Sub-heading, if applicable:	-
Classes, if applicable:	Linear Algebra
Semester:	6 <sup>th</sup> (sixth)
Module coordinator:	Head of Algebra Expertise group
Lecturer(s):	Drs. Yusmet Rizal, M.Si.
Language:	Indonesian Language and English
Classification within the curriculum:	Elective Courses in the third year (6 <sup>th</sup> semester) of Bachelor Degree
Teaching format / class hours per week during the semester:	<ol style="list-style-type: none"><li>Lectures : Cooperative learning with methods such as expository and discussion. (3 x 50 minutes = 150 minutes).</li><li>Structured assignment : Weekly individual written assignment. (3 x 60 minutes = 180 minutes).</li><li>Individual study (3 x 60 minutes = 180 minutes).</li></ol>
Workload:	Total workload is 136 hours per semester, which consists of 150 minutes lectures, 180 minutes structured assignment, and 180 minutes individual study for 16 weeks per semester, including midterm and final exams.
Credit points:	3 sks = 4.53 ECTS
Prerequisites course(s):	Elementary Linear Algebra
Course Outcomes:	After completing this course, the students have ability to: CO 1: Generalize the ajabar properties of real numbers into the field properties related to the form of the matrice. CO 2 : Determine the elementary row operation on matrice, the result of the sum and multiplication of the matrice, the equivalent matrice, and the characteristic equation of a matrice. CO 3. Determine matrice determinant using cofactor expansion and the direct sums. CO 4. Devise linear transformation $R^2$ into $R^3$ or

