



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

**MODULE HANDBOOK**

Module name:	Module Theory
Module level,if applicable:	Bachelor
Code:	MAT2.62.7003
Subheading,if applicable:	-
Classes,if applicable:	Module Theory
Semester:	7 <sup>th</sup> (seventh)
Module coordinator:	Head of Algebra Expertise Group
Lecturer(s):	Drs. Yusmet Rizal, M.Si.
Language:	Indonesian Language and English
Classification within the curriculum:	Elective course in the fourth year (7 <sup>th</sup> semester) Bachelor Degree
Teaching format / class hoursperweekduring the semester:	<ul style="list-style-type: none"> <li>a. Lectures : Cooperative learning with methods such as expository, drill, and discussion. (3 x 50 minutes = 150 minutes)</li> <li>b. Structured assignment : Weekly individual written assignment. (3 x 60 minutes = 180 minutes)</li> <li>c. Individual study (3 x 60 minutes = 180 minutes)</li> </ul>
Workload:	The total workload is 136 hours per semester, which consists of 150 minute lectures, 180 minute structured activities, and 180 minutes of self-study. In total, there are 16 weeks per semester, including midterm and final exams.
Creditpoints:	3 sks = 4.53 ECTS
Prerequisites course(s):	Algebraic Structure, Elementary Linear Algebra
Course outcomes:	<p>After completing this course, the students have the ability to:</p> <ul style="list-style-type: none"> <li>CO1. understand the basic properties of modules and submodules</li> <li>CO2. recognize the concept of module homomorphism</li> <li>CO3. develop the concepts of generator and linear independence in modules.</li> <li>CO4. understand the concept of exact sequence and its application to further analysis.</li> </ul>

