



**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:	Finite Group Theory
Module level,if applicable:	Bachelor
Code:	MAT2.62.8003
Subheading,if applicable:	-
Classes,if applicable:	Finite Group Theory
Semester:	8 <sup>th</sup> (eighth)
Module coordinator:	Head of Algebra Expertise Group
Lecturer(s):	Drs. Yusmet Rizal, M.Si. and Defri Ahmad, S.Pd., M.Si.
Language:	Indonesian Language and English
Classification within the curriculum:	Compulsory course in the fourth year (8 <sup>th</sup> semester) Bachelor Degree
Teaching format/class hours per week during 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.
Credit points:	3 SKS = 4.53 ECTS
Prerequisites course(s):	Abstract Algebra
Course outcomes:	<p>After taking this course the students have ability to:</p> <p>CO1. Express the concept of Finite Groups, Permutation Groups, Modular groups and generators, Lagrange's Theorem, Group Action, Jordan Holder's Theorem; Cauchy's Theorem, Sylow's Theorem.</p> <p>CO2. Apply the concept of Finite Groups, Permutation Groups, Modular groups and generators, Lagrange's Theorem, Group Action, Jordan Holder's Theorem; Cauchy's Theorem, Sylow's Theorem</p> <p>CO3. Analyze the concept of Finite Groups, Permutation Groups, Modular groups and generators, Lagrange's.</p> <p>CO4. Prove the problems that connect the concept of Finite</p>

