



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:	Actuarial Mathematics
Module level, if applicable:	Bachelor
Code:	MAT1.62.4004
Subheading, if applicable:	-
Classes, if applicable:	Actuarial Mathematics
Semester:	4 th (fourth)
Module coordinator:	Head of Actuarial Expertise Group
Lecturer(s):	Dr. Devni Prima Sari, S.Si., M.Sc., Muhammad Subhan, S.Si., M.Si., and Dr. Suherman, S.Pd., M.Si.
Language:	Indonesian Language and English
Classification within the curriculum:	Compulsory courses in the second year (4 th semester) of Bachelor Degree
Teaching format/class hours per week during the semester:	<ul style="list-style-type: none"> a. Lectures: by problem-based learning with methods such as expository, presentations, group, and class discussion. (3 x 50 minutes = 150 minutes) b. Structured assignment: Weekly individual written assignment. (3 x 60 minutes = 180 minutes) c. Individual study. (3 x 60 minutes = 180 minutes)
Workload:	Total workload is 136 hours per semester which consists of 150 minutes of lectures, 180 minutes of structured activities, and 180 minutes of individual study per week for 16 weeks.
Credit points:	3 SKS = 4.53 ECTS
Prerequisites course(s):	Probability Theory
Course outcomes:	<p>After taking this course the students have the ability to</p> <p>CO1 Analyze basics of interest and its applications.</p> <p>CO2 Solve annuity problems using appropriate mathematical software.</p> <p>CO3 Explain the basics of individual life insurance, including mortality tables and life annuities.</p> <p>CO4 Apply individual life insurance premiums and the</p>

