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MODULE HANDBOOK

Module name	Pengantar Matematika Aktuaria I (Introduction to Actuarial Mathematics I)
Module level, if applicable	Bachelor
Code, if applicable	MMS-3438
Subtitle, if applicable	
Courses, if applicable	
Semester(s) in which themodule is taught	I
Person responsible for themodule	Adhitya Ronnie Effendie
Lecture(s)	Adhitya Ronnie Effendie
Language	Indonesian
Classification within the Curriculum	elective
Teaching format /classhours per week during the semester:	lecture, lesson, practical, project
Workload	
Credit points	3
Requirements	MMS-2110 Multivariable Calculus, MMS-2410 Introduction to Probability Model
Module objectives/intended learning outcomes	Students understand concept of annuities Students understand concept of life insurance Students understand concept of insurance contracts Students understand concept of benefit premium
Content	This course is about modelling Life Insurance based on stochastic approach. During the course session, the students may learn the operation of Life Insurance companies. Several technical and actuarial procedures are given to understand the calculation and detemination of such actuarial quantities like premium and benefit reserves.

Study and xamination requirements and forms of examination	The weight of assignments will be as follows: i. Quiz, homework 25% ii. Mid semester exam 35% iii. Final exam 40% Grade scale: A: 85<score≤100 A-: 80<score≤85 A/B: 75<score≤80 B+: 70<score≤75 B: 65<score≤70 B-: 60<score≤65 B/C: 55<score≤60 C+: 50<score≤55 C: 45<score≤50 C-: 40<score≤45 C/D: 35<score≤40 D+: 30<score≤35 D: 20<score≤30 E: 0≤score≤20
Media employed	
Reading List	Bowers, et. al. *Actuarial Mathematics*, second edition (1997) Society of Actuaries.