

MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY UNIVERSITAS NEGERI SURABAYA FACULTY OF MATHEMATICS AND NATURAL SCIENCE UNDERGRADUATE PROGRAM OF MATHEMATICS Ketintang Campus, C8-C9 Buildings of FMIPA, Surabaya Email: <u>s1-mat@unesa.ac.id</u>

Module Handbook

Module Name :	Aktuaria Actuarial		
Module level :	Bachelor degree/Undergraduate Program		
Course Code :	4420103001		
Abbreviation, if applicable:	-		
Courses included in the module, if applicable:	Not Applicable		
Semester/Term	6 th / third year		
Module coordinator(s)	A'yunin Sofro, Ph.D		
Lecturer(s):	A'yunin Sofro, Ph.D		
Language:	Bahasa Indonesia (Indonesian Language)		
Classification within the curriculum:	Compulsory/ Elective		
Teaching format/class hours per week during the semester:	3 contact hours of lectures (<i>sks</i> or credit unit*)		
Workload :	3 x 50 minutes lectures, 3 x 60 minutes structured activity, and 3 x 60 minutes individual activity per week, 14 weeks per semester 119 total hours per semester ~ 4.77 ECTS**		
Credit Unit:	3 credit unit (4.77 ECTS)		
Requirements:	Statistical Method		



	Skill CLO-1 : Implementing simple basic deterministic model, deterministic model, Probability theory, survival model,life table, life annuities, life insurance procedures in computer programs.	
Learning goals/competencies:	Competences CLO-2 : Proving some simple basic deterministic model, deterministic model, Probability theory, survival model,life table, life annuities, life insurance	
	Attitude and Social CLO-3 : Working collaboratively	
Content	This course discusses Basic deterministic model, Probability theory, survival model,life table, life annuities, life insurance. Lecture activities are carried out in a student center with discussions, observations, project assignments, and presentations.	

Attribute Soft skill:	Active communication; Discipline; Collaboration; Responsibility; and Argumentation in class.			
Study/exam achievements:	The final grade (<i>NA</i>) is calculated based on the following ratio:			
	Assessment Components	Percentage of contribution		
	Participation	20%		
	Assignment	30%		
	Mid-semester test	20%		
	Final semester test	30%		



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	Grade conversion of 0-100 scale into 0-4 scale is set as below:				
	Letter	Number	Grade Interval		
	А	4,00	$85 \leq A \leq 100$		
	A-	3,75	80 ≤ A- < 85		
	B+	3,50	75 ≤ B+ < 80		
	В	3,00	70 ≤ B < 75		
	B-	2,75	65 ≤ B- < 70		
	C+	2,50	$60 \le C+ < 65$		
	С	2,00	$55 \leq C < 60$		
	D	1,00	40 ≤ D < 55		
	Е	0,00	$0 \leq E < 40$		
Learning Methods :	Student-centered approach; project-based learning; lecturer and discussion; and presentations (structured activities)				
Form of Media:	Power point slides; video; worksheets, and textbooks				
Literature (primary references):	 S. David P, Fundamentals of Actuarial Mathematics, 2011, A John Wiley and Sons, Ltd, Publication Bowers, C.S. 1997. <i>Actuarial Mathematics</i>. The Society of Actuaries Dickson, D.C., Hardy M.R., Waters H. R, 2009, Actuarial Mathematics for Life Contigent Risk, Cambridge University Press, United Kingdom 				
Notes:	*1 credit unit scheduled in structured a minutes) acco Technology, a of Indonesia Technology, a	t or <i>sks</i> in learning process struction in a classroom ctivity (60 minutes); an ording to the Regulation of and Higher Education No. Ministry of Research, and Higher Education No.	ss = three periods consist of: (a) or laboratory (50 minutes); (b) nd (c) individual activity (60 f Indonesia Ministry of Research, 44 Year 2015 jo. the Regulation 50 Year 2018.		



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**1 credit unit or *sks* = 1.59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2019