

Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Undergraduate Mathematics Study Program

Document Code

SEMESTER LEARNING PLAN														
Courses			CODE		Cours	ourse Family		Credit Weight			SEMESTER	Compilation Date		
Actuarial				4420103001				T:	=3 P	P=0	ECTS=4	1.77	6	July 18, 2024
AUTHORIZATION			SP Developer		Co	Course Cluster Coordinator		or	Study Program Coordinator					
										Prof. Dr. Raden Sulaiman, M.Si.				
Learning model		Project Based L	earninç.	ig .										
		PLO study program that is charged to the course												
Learning Outcomes		Program Objectives (PO)												
(PLO)		PLO-PO Matrix												
			P.O											
		PO Matrix at th	e end	of each learning stage (Sub-PO)										
			P.	0 1 2	3 4 5	6 6	7 8	We	eek	0	11 1	2	13 14	15 16
Short Course Descript							remium, gross							
References Main:														
			ndamentals of Actuarial Mathematics, 2011, A John Wiley and Sons,Ltd, Publication 1997. Actuarial Mathematics . The Society of Actuaries											
		Supporters:												
Supporting lecturer Affiati Oktaviarina, S.Si., M.Sc.														
Week-	eac			Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]				Learning materials [References	Assessment Weight (%)		
(Su		b-PO)	Indicator		Criteria & Form		Offline (offline)		Online (online))	
(1)		(2)		(3)	(4)		(5)			(6)		(7)	(8)
1	tables		to ta 2.S pi re	explore how o create a life able solving roblems egarding life ables		L A (I d a q a	Collaborat Learning Approach Lectures, discussion and questions and answe	ıs						0%

2	Understanding life tables	1.Explore how to create a life table 2.Solving problems regarding life tables	Collaborative Learning Approach (Lectures, discussions and questions and answers	0%
3	Understanding Annuities	· Explore problems using annuities · Solve problems using annuities	3 X 50 annuity value 3 X 50	0%
4	Understanding Annuities	Explore problems using annuities · Solve problems using annuities	annuity value 3 X 50	0%
5	Understanding life annuities	1.Explore the cash value and ending value of a living annuity 2.Solving problems with cash value and ending value of living annuities	Collaborative Learning Approach (Lecture, discussion and question and answer) 3 X 50	0%
6	Understanding life annuities	1.Explore the cash value and ending value of a living annuity 2.Solving problems with cash value and ending value of living annuities	Collaborative Learning Approach (Lecture, discussion and question and answer) 3 X 50	0%
7	Understanding life annuities	1.Explore the cash value and ending value of a living annuity 2.Solving problems with cash value and ending value of living annuities	Collaborative Learning Approach (Lecture, discussion and question and answer) 3 X 50	0%
8	UTS		3 X 50	0%
9	Understanding pure endowment	1.Exploring pure endowment 2.Solving pure endowment problems	Collaborative Learning Approach (Lecture, discussion and question and answer) 3 X 50	0%
10	Understanding pure endowment	1.Exploring pure endowment 2.Solving pure endowment problems	Collaborative Learning Approach (Lecture, discussion and question and answer) 3 X 50	0%
11	Understanding life insurance	· Explore about · life insurance Solve problems about life insurance	life insurance 3 X 50	0%
12	Understanding life insurance	Explore about life insurance Solve problems about life insurance	life insurance 3 X 50	0%

13	Understanding net premium	1.Explain the characteristics of net premium 2.Solve problems about net premium	Activate students by exploring the net premium. Activate students by discussing to resolve problems related to the 3 X 50 net premium		0%
14	Understanding gross premiums	· Explore gross premium problems · Solve gross premium problems	Collaborative Learning Approach (Lecture, discussion and question and answer) 3 X 50		0%
15	Understanding net premium reserves	Explore net premium reserve problems Solve gross premium problems	Collaborative Learning Approach (Lecture, discussion and question and answer) 3 X 50		0%
16	UAS		3 X 50		0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
		0%

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program)
 which are used for the formation/development of a course consisting of aspects of attitude, general skills, special
 skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO) is a capability that is specifically described from the PO that can be measured or
 observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the
 course.
- Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.