

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Probability Theory				
Module level,if applicable:	Undergraduate				
Code:	MAT6315				
Sub-heading,if applicable:	-				
Classes,if applicable:	-				
Semester:	3 rd				
Module coordinator:	Dra. Mathilda Susanti, M.Si.				
	Dra. Mathilda Susanti, M.Si.				
Lecturer(s):	2. Rosita Kusumawati, M.Sc				
•	3. Syarifah Inayati, S.Pd., M.Sc.				
Language:	Bahasa Indonesia				
Classification within the	Compulsory course				
curriculum:					
Teaching format/class hours	150 minutes lectures and 180 minutes structured activities per				
perweek during the	week.				
semester:					
	Total workload is 136 hours per semester, which consists of				
Workload:	150 minutes lectures, 180 minutes structured activities, and				
	180 minutes self-study per week for 16 weeks.				
Creditpoints:	3				
Prerequisites course(s):	Statistics (MKU 6201)				
Course outcomes	After taking this course, the students have the ability to:				
	CO1. Demonstrate respect for the views, opinions or original				
	findings of others.				
	CO2. Demonstrate the ability to think critically, creatively,				

		innovotiv	alv. and avatameti	cally in the day	olonmont of			
innovatively, and systematically in the develop								
	science and technology, both independen							
	groups.							
	CO3. Demonstrate the ability to convey mathematical ideas in							
	writing and verbally based on values of honesty.							
	CO4. Explain concepts in probability theory. CO5. Prove the theorems related to probability.							
	CO6.	Solve prol	blems using conce	pts in probability	theory.			
	The course is more focused on prob-							
	mater	ials of pr	obability theory a	are combinatoria	al methods,			
Content:	proba	bility, ran	dom variables ar	nd their distribu	utions, joint			
	distributions, properties of random variables, and func							
	random variables.							
	CO1: Attitude assessment is carried out at each me							
	observation and / or self-assessment techniques using the							
	assumption that basically every student has a good attitude.							
	The student is given a value of very good or not good attitude							
	if they show it significantly compared to other students in							
	general. The result of attitude assessment is not a com							
	of the final grades, but as one of the requirements to pas							
	course. Students will pass from this course if at least have a							
	good attitude.							
Study/exam achievements:	The fi	nal mark v	vill be weight as fol	low:				
	No	CO	Assessment	Assessment	Weight			
	1	CO2,	Object Presentation	Technique Observation	10%			
		CO3						
	2	CO4,CO5 , CO6	a. Individual Assignment	Written test	10%			
			b. Group Assignment		10%			
			c. Quiz		20%			
			d. Mid-Term Examination		25%			
			e. Final		25%			
			Examination	Total	100%			
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Forms of media:	Board, LCD Projector, Laptop/Computer						
	1. Bain, Lee J. &Engelhardt, Max. 1992. Introduction to						
	Probability and Mathematical Statistics. Belmont: Duxbury						
	Press.						
Literature:	2. Ross, Sheldon M. 2010. A First Course in Probability. New						
	Jersey: Prentice-Hall.						
	3. Rice, John A., 1995. Mathematical Statistics and Data						
	Analysis. Belmont: Duxbury Press.						

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2			✓							
CO3				✓						
CO4					✓					
CO5						✓				
CO6							√			