

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:	Advanced Statistics					
Module level,if applicable:	Undergraduate					
Code:	MAT6309					
Sub-heading,if applicable:	-					
Classes,if applicable:	-					
Semester:	3 rd					
Module coordinator:	Elly Arliani, M.Si.					
	1. Elly Arliani, M.Si.					
	2. Retno Subekti, M.Sc.					
Lecturer(s):	3. Dr. Djamilah BW					
	4. Mathilda Susanti, M.Si.					
Language:	Bahasa Indonesia					
Classification within the	Dariasa iriuuriesia					
	Compulsory course					
curriculum:						
Teaching format/class	150minutes lectures and 180 minutes structured activities per week.					
hoursperweekduring the						
semester:						
	Total workload is 136 hours per semester which consists of					
Workload:	150 minutes lectures, 180 minutes structured activities, and					
	180 minutes individual study per week for 16 weeks.					
Creditpoints:	3					
Prerequisites course(s):	Statistics (MKU 6201)					
	After taking this course, the students have the ability to:					
Course Outcomes:	CO1. Demonstrate respect for the views, opinions,or original					
	findings of others.					

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	CO2. Demonstrate the ability to think critically, creatively,					
	innovatively, and systematically in the development of					
	science and technology, both independently and in					
	groups.					
	CO3. Demonstrate the ability to convey mathematical ideas in					
	writing and verbally based on values of honesty					
	CO4. Understand the estimation of the parameters of two populations					
	CO5. Understand the hypothesis testing of two population					
	parameters.					
	CO6. Understandthe hypothesis testing of more than two population parameters.					
	CO7.Understand the use of Chi-Square tests					
	CO8. Understand simple regression analysis					
	CO9. Understand testing ofregressionmodel					
	CO10. Understand multiple regression analysis					
	CO11. Understand several nonparametric statistical tests					
	CO12. Resolve the problem of using concepts in advanced					
	statistics, either manually or using statistical software.					
	This course discusses parameter estimation for two					
	populations, hypotheses testing for two populations and more					
Content:	than two populations, one-way variance analysis and multiple					
	comparison tests, linear regression, and several hypothesis					
	testing related to nonparametric statistics.					
	Attitude assessment is carried out at each meeting by					
	observation and/or self-assessment techniques using the					
Study/examachievements:	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 component					
	of the final grades, but as one of therequirements to pass the					
	course. Students will pass from this course if at least have a good attitude.					
	The final mark will be weight as follow:					

	No	СО	Assessment Object	Assessment Technique	Weight		
	1	CO2	Presentation	Observasi	10%		
	2	CO4, CO5, CO6, CO7, CO8, CO9, CO10, CO11	a. Class participation (during discussion and working on the board) b. Quiz c. Assignment	Observation Written test Written test	10% 15% 15%		
	3	CO4, CO5, CO6, CO7	Mid-Term Examination	Written test	25%		
	4	CO8, CO9, CO10, CO11	Final Examination	Written test	25%		
				Total	100%		
Forms of media:	Board, LCD Projector, Laptop/Computer						
	Walpole, Ronald.E . 1995. Alih bahasa oleh Bambang						
	Sumantri. Introductory to Statistics. Gramedia, Jakarta.						
Literature:	2. Stephens, L. J. 2004. Advanced Statistics. New York:						
	McGraw-Hill						
	3. Mario F. Triola. 2004. <i>Elementary Statistics</i> , ninth edition.						
	Pearson Education. Inc.						

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2			✓							
CO3				✓						
CO4					✓					
CO5					✓					
CO6					✓					
CO7					✓					
CO8					✓					
CO9					✓					
CO10					✓					
CO11					✓					
CO12									✓	